


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>							
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Aneth C-223X							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT GREATER ANETH							
4. TYPE OF WELL Water Injection Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME ANETH							
6. NAME OF OPERATOR RESOLUTE NATURAL RESOURCES						7. OPERATOR PHONE 303 534-4600							
8. ADDRESS OF OPERATOR 1675 Boradway Ste 1950, Denver, CO, 80202						9. OPERATOR E-MAIL pflynn@resoluteenergy.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTSL 071010			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		1621 FNL 1915 FEL		SWNE		23		40.0 S		23.0 E		S	
Top of Uppermost Producing Zone		1621 FNL 1915 FEL		SWNE		23		40.0 S		23.0 E		S	
At Total Depth		1621 FNL 1915 FEL		SWNE		23		40.0 S		23.0 E		S	
21. COUNTY SAN JUAN			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1621			23. NUMBER OF ACRES IN DRILLING UNIT 640							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1750			26. PROPOSED DEPTH MD: 5779 TVD: 5779							
27. ELEVATION - GROUND LEVEL 4663			28. BOND NUMBER UTB000169			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 09-1428							
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
Cond	24	16	0 - 0	65.0	C-75 Casing/Tubing	9.4	Unknown	134	1.25	26.0			
Surf	14.75	10.75	0 - 1650	40.5	J-55 ST&C	9.4	Premium Lite High Strength	464	1.88	12.5			
							Premium Plus	133	1.16	15.8			
Open	6.125	0	0 - 5779	0.0	No Pipe Used	0.0	No Used	0	0.0	0.0			
Prod	9.875	7	0 - 5779	26.0	J-55 LT&C	9.4	50/50 Poz	490	1.9	12.4			
							Type V	72	1.31	13.5			
							50/50 Poz	660	1.88	12.5			
							Type V	133	1.15	15.8			
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Sara Bohl					TITLE Regulatory Analyst				PHONE 303 534-4600				
SIGNATURE					DATE 10/16/2012				EMAIL sbohl@ResoluteEnergy.com				
API NUMBER ASSIGNED 43037500370000					APPROVAL  Permit Manager								

Geology - Anticipated Geologic Markers

<h1 style="text-align: center;">Resolute</h1> <p style="text-align: center;">Geologic Program</p>				
Date	11-Jun-12			
AFE #	After AFE			
Prospect				
Project/Area	Aneth Unit			
Operator	Resolute			
Well Name	C-223X			
County/State	San Juan		UT	
GL / KB	GL	4,679.0	KB	4,699.0
Spot/Sect/Twnshp/Rng	SW/NE / 1915' FEL & 1621' FNL	23	40S	23E
RNRC working interest	After AFE			
Vert/deviated/horiz?	Vertical - redrill injector			
Projection	Utah South (NAD 27)			
Surface XY Location	X	after survey	Y	after survey
Latitude / Longitude	Lat	37.2973800	Long	-109.355960
Proposed Total Depth	TVD	5,779.0	Subsea	-1,080.0
Geologic Tops (MD, TVD, SS)	Name	(sub-KB)	Subsea TVD	Objective?
	Navajo	767	3,932	
	Chinle	1,625	3,074	
	Organ Rock	2,871	1,828	
	Hermosa	4,711	-12	
	Ismay	5,465	-766	
	Gothic Shale	5,615	-916	
	Desert Creek I	5,636	-937	Primary
	Desert Creek II	5,673	-974	Primary
	Desert Creek III	5,749	-1,050	
	Chimney Rock	5,769	-1,070	
Key Offset Correlation Logs	Well Name	Location	API #	Horizon: Depth
	A-414	SWSW Sec. 14	43-037-16031	DC-I: 5686
	D-414	SESE Sec. 14	43-037-30639	CHNL: 1596 NVJO: 738
Contact Information				
RNRC Geologist	Jason Burris		Office	303-573-4886 x1335
	Home	303-274-0746	Cell	303-763-0998
	Alternate: Sean Smith		Office	303-573-4886 x1215
			Cell	303-902-3772

Project Overview

The target formation for the proposed Aneth Unit C-223X is the Desert Creek formation. The purpose for the proposed well is to complete a producing oil well in the Greater Aneth Area. A vertical well will be drilled to TD (5779') in the Desert Creek formation and a full suite of logs will be run. Anticipated start date of project is September 2012 ending October 2012. Anticipated duration of project from spud to completion is 48 days.

Well Location

Surface Location: SW NE/ 1915' FEL & 1621' FNL

SEC 23, T40S, R23E

Lat 37.29738 Long -109.35596

Surface Elevation: 466.38' GL

Proposed Depth: 5779'

Target Formation & Anticipated Water, Oil, Gas and Mineral Resources

The target formation for the Aneth Unit C-223X is the Desert Creek formation.

The principal underground sources of drinking water USDW in the Greater Aneth area include the Entrada Sandstone, Navajo Sandstone, and Wingate Sandstone, which collectively comprise the Navajo aquifer. The projected top of the Navajo in the proposed well is at a depth of 767 feet. The overlying Morrison aquifer and isolated Dakota and Alluvial aquifers may also be present. The top of the Chinle formation separates the fresh water aquifers above from non-usable saline ground water aquifers below and is generally accepted as the base of fresh water in the Greater Aneth area. The top of the Chinle formation is projected at a depth of 1,625 feet below ground level in the proposed well.

Intermediate casing in the proposed well will be set and cemented from surface through the top of the Chinle to protect the USDW above.

Potential oil, gas and mineral resources to be encountered include the Ismay and Desert Creek zones of the Paradox formation, which are the primary hydrocarbon reservoirs in the southern Paradox Basin.

Production casing in the proposed well will be cemented from TD to surface in 2 stages.

Anticipated Reservoir Pressures and Temperatures

The Ismay and Desert Creek zones are expected to be normally pressured as a result of the ongoing waterflood in the Aneth Unit. Current pressures are 3,000 to 3,200 psi at 5,500 to 5,700 feet. Offset injection wells will be shut-in as soon as the well is spud to allow pressure within the reservoir to dissipate. It is anticipated that Production casing

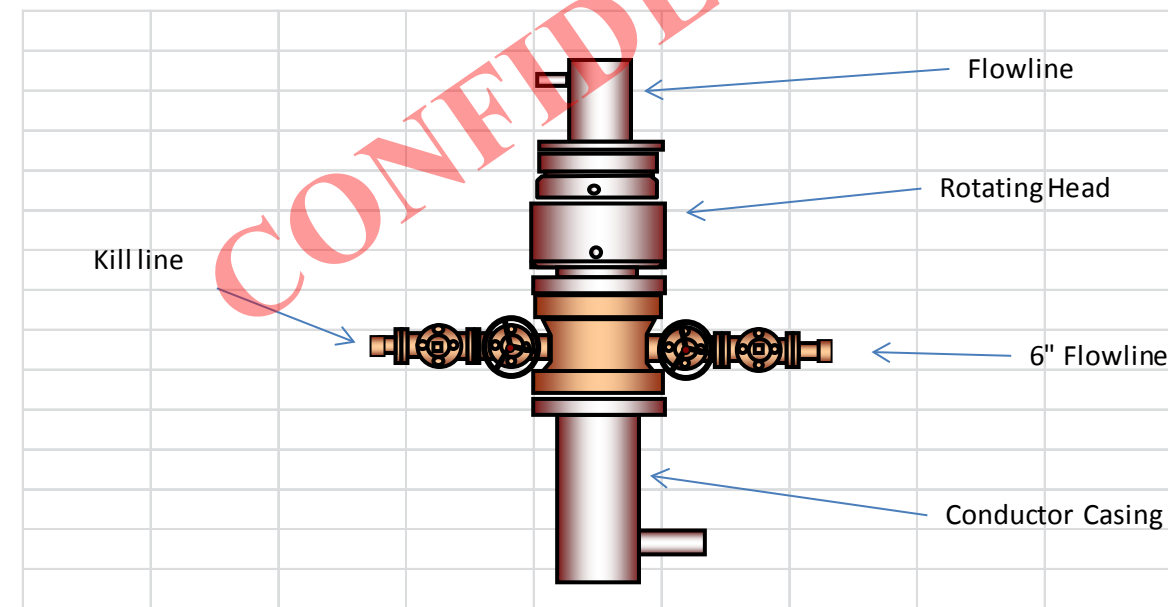
will be sent in the upper Ismay formation and that all the lower Ismay and Dessert Creek members will be drilled open hole using a nitrogen underbalanced system.

BOPE Specifications

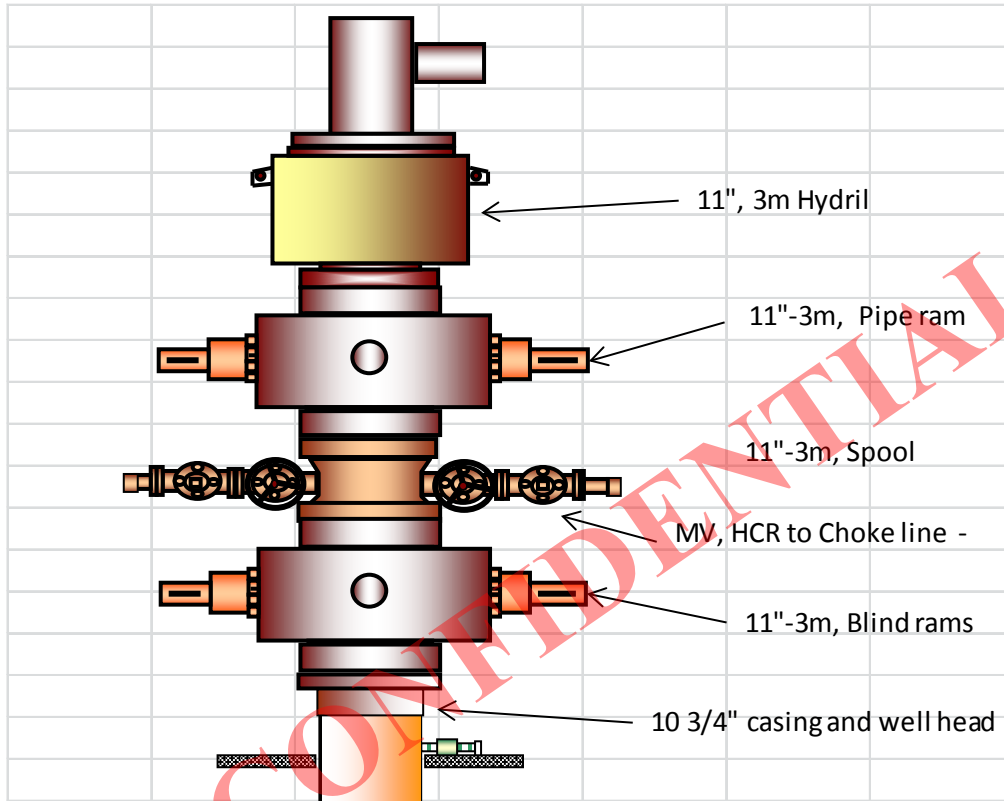
Well Pressure Control Equipment and Procedures:

Blowout preventer equipment (BOPE) as discussed below will be installed and tested prior to drilling of the surface casing shoe and for each subsequent phase of drilling operations. Accumulators will be tested for pre-charge pressure and for holding pressure on the manifold prior to connection to the stack. Annular BOPs will be tested on nipple up and every 7 days thereafter, first to 200 psi, to simulate field well control situations, and then to the rated working pressure. Each test will be held for 15 minutes. The choke manifold will be operated and circulated through for kill rate pressures with each change of bottom hole assembly (BHA), but at least daily, using 2 slow pump rates, one at idle and one 10 strokes above that. All BOPE testing will be recorded and a copy of the pressure charts maintained with the tour sheet or drilling log.

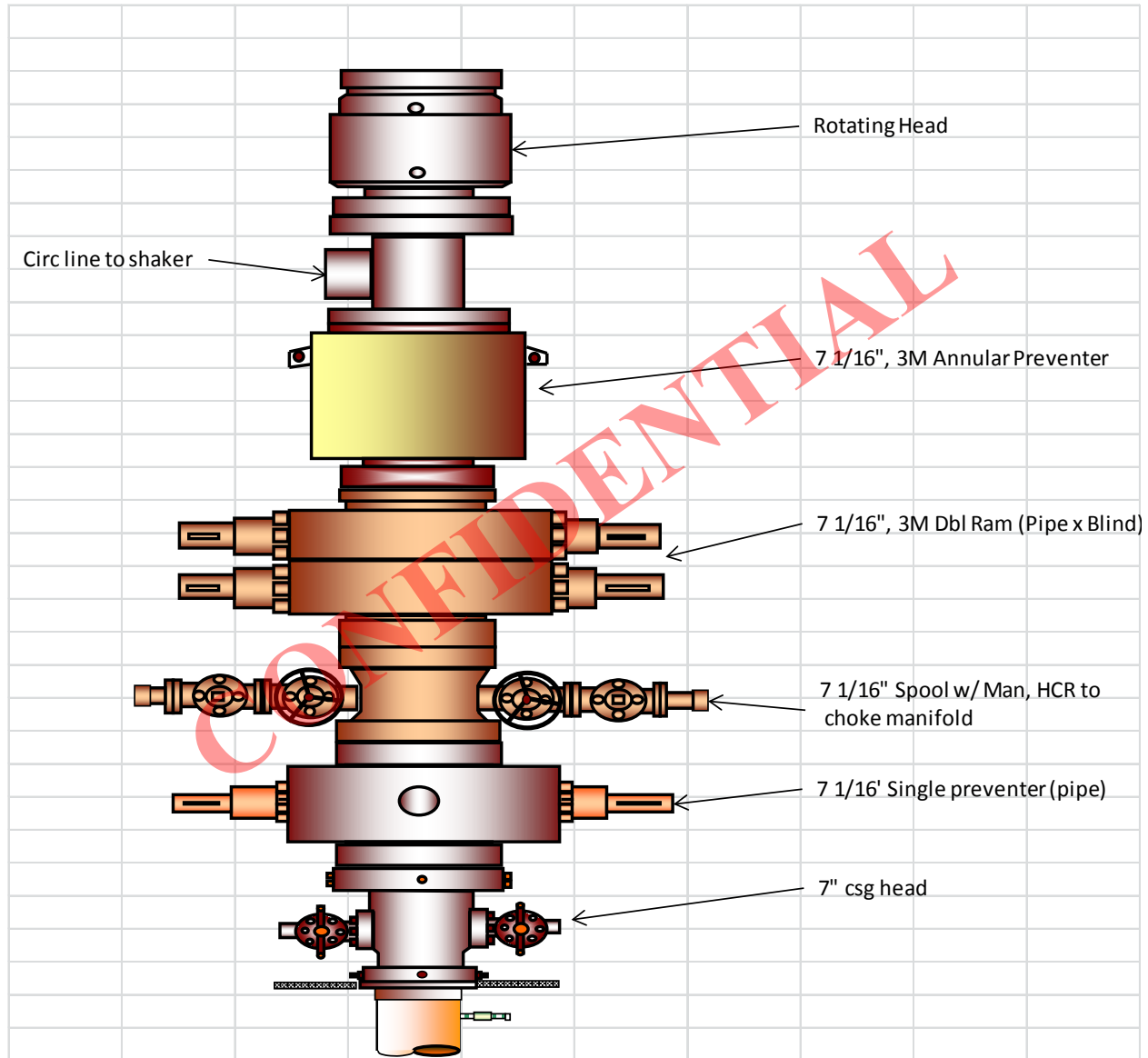
Conductor Pipe Diverter System



A diverter system as illustrated above will be installed to control well flows encountered at relatively shallow depths from ± 90 to $\pm 1,675'$ feet. The diverter system includes a conductor pipe, 350 psi working pressure rotating head with 6 inch full opening hydraulic valve and 6" minimum diameter divert line. The divert line valve is kept open so that flow can not be impeded to tanks and emergency pit. All diverter lines will be securely staked and will be straight lines or will use tee blocks or are targeted with running tees. All diverter line valves and other components will be 150 psi minimum working pressure.

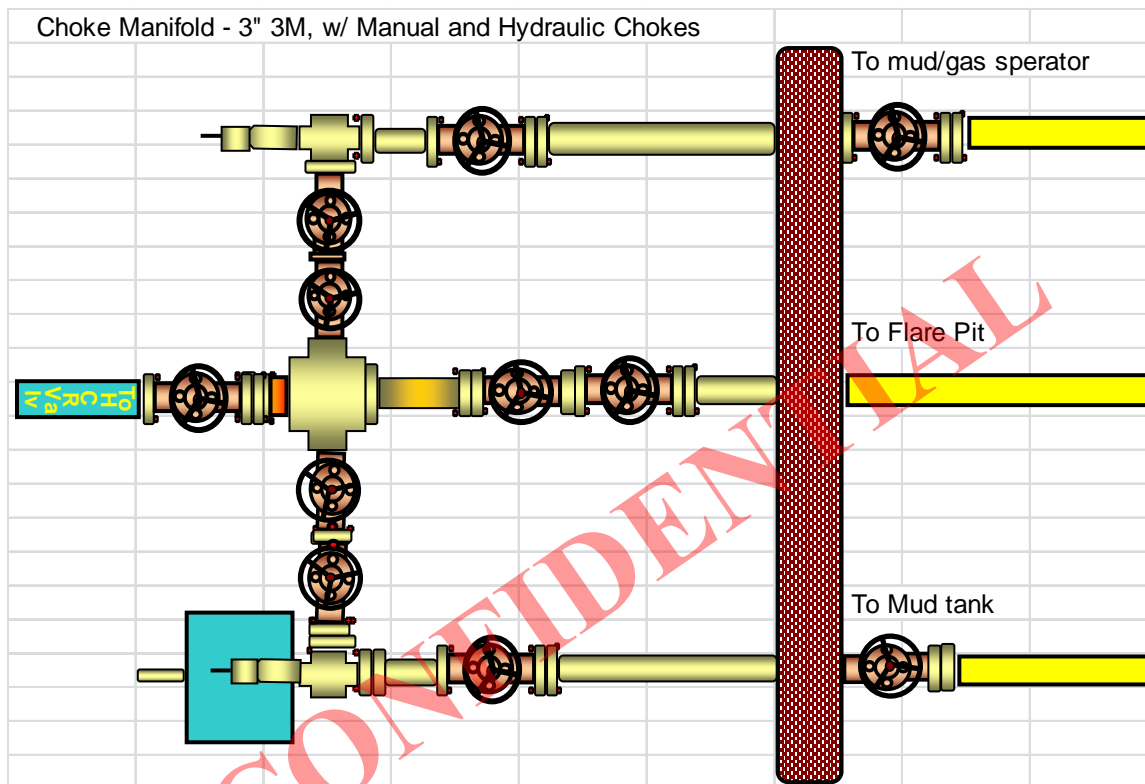
Surface Casing BOPE System**RSRA System w/HCR Valve and Choke Manifold**

A RSRA system with HCR valve and rotating head as illustrated above will be installed to control well flows encountered during drilling from 1,675' feet to 7" casing setting depth, (5,535 +/-). Full-opening, flanged valves will be used on all outlets, flowlines and the choke manifold. Kill and choke lines will be constructed as straight lines or will use tee blocks or running tees. Kill and choke lines will have minimum diameters of 2 and 3 inches respectively

Production Casing BOPE System**RSRA System w/Rotating Head, HCR Valve and Choke Manifold**

A RSRA system with HCR valve and rotating head as illustrated above will be installed to control well flows encountered during drilling from 5,535' to 5,779' or TD. Full-opening, flanged valves will be used on all outlets, flowlines and the choke manifold. Kill and choke lines will be constructed as straight lines or will use tee blocks or running tees. Kill and choke lines will have minimum diameters of 2 and 3 inches respectively

Choke Manifold



Casing Program & Cement Program

Conductor Casing / Cementing								
Condcutor	Hole Size	Depth	Mud Wt	Hyd Press	Cement Wt	Cmt Hyd Press	Delta Press	
	24	90	8.30	38.84	26.00	121.68	82.84	
	Casing Siz	Grade	Cplg	Wt/ft	Collapse	Internal Yield	Joint Strength	Pipe Yield
	16.00	C-75	PE	65.00	740	1730	322,000	541,000
	SF= Collapse 1.125, Internal Press 1.00, joint Stength 1.80, Pipe Yield 1.25							
Cement		Type	Wt	Yield	Vol-Cu Yds	Additives		
	Lead	Redi-mix	26	Grout	5.82			
	Tail							
Stg Tool								
	Lead					Additives		
	Tail							
Shoe	Notched collar							
Cntrlzrs	None							
Other								

Surface Surface Casing and Cement								
Surface	Hole Size	Depth	Mud Wt	Mud Hyd Press	Cement Wt	Cmt Hyd Press	Delta Press	
	14.750	1675.00	9.00	783.90	12.4/15.8	1120.37	336.47	
	Casing Size	Grade	Cplg	Wt/ft	Collapse	Internal Yield	Joint Strength	Pipe Yield
	10.750	J-55	STC Rd	40.50	1580	3130	420,000	629,000
	SF= Collapse 1.125, Internal Press 1.00, joint Stength 1.80, Pipe Yield 1.25							
		Type	Wt	Yield	Vol-bbl	Vol-Sks	Additives	
Cement	Lead	Prm Light	12.50	1.88	155.32	463.88	5 lbm/sk Kol-Seal, 2% CaCl, .125 lbm/sk Poly-E-Flake	
	Tail	Premium	15.80	1.16	27.38	132.54	.125 lbm/sk Poly-E-Flake	
Stg Tool	Stage Tool: none							
	Lead							
	Tail							
Shoe	HES Trophy, Auto fill							
Cntrlzrs	API 10 3/4, (12): 3 on bottom jt, 1 every 4th joint to surface							
Other								

Production Casing and Cement								
Prod	Hole Size	Depth	Mud Wt	Hyd Press	Cement Wt	Cmt Hyd Press	Delta Press	
	9.875	5535	10.00	2878.20	12.4/15.8	3621.57	743.37	
	Casing Siz	Grade	Cplg	Wt/ft	Collapse	Internal Yield	Joint Strength	Pipe Yield
	7.000	J-55	LTC Rd	26.00	4320	4980	367,000	415,000
SF= Collapse 1.125, Internal Press 1.00, joint Stength 1.80, Pipe Yield 1.25								
Cement	Lead	Type	Wt	Yield	Vol-bbl	Vol -Sks	Additives	
		50/50 poz	12.40	1.90	165.65	489.52	5 lbm/sk Gilsonite, .125 lbm/sk Poly-E-flake, .4% Halad® 9	
	Tail	Type V	13.50	1.31	16.62	71.24	.125 lbm/sk Poly-E-Flake, .3% Halad R 9	
Stg Tool	HES Type P ES Stage Cementing Tool Set @ 2,500' (+,-)							
	Lead	50/50 Poz	12.50	1.88	220.86	659.63	5 lbm/sk Gilsonite, .125 lbm/sk Poly-E-flake	
	Tail	Type V	15.80	1.15	27.30	133.28	.125 lbm/sk Poly-E-Flake, .3% Halad R9	
Shoe	HES float shoe & HES float collar,							
Cntrlzrs	API 7", (46): 2 on bottom jt, 1 every 4th joint to stage tool, one either side of stage tool, then 1 every 4th jt to surface							
Other								

Mud Program & Under Balanced or Air/Gas Drilling

Drilling fluids as specified below will be used to maintain well control during drilling. Sufficient quantities of drilling fluids will be kept onsite and tests to determine density, viscosity, gel strength, filtration, and pH will be performed daily. Kill Weight Brine(10 ppg) will be on hand in volume to kill well if necessary.

- 1) Conductor and Surface Casing
 Depth: 90' to $\pm 1,675'$
 Bit Size: 20" – 14 $\frac{3}{4}$ "
 Mud Type: FW/Spud mud
 Hole Volume: 280 bbls
 Pit Volume: 500 bbls

	Minimum	Maximum	Units
Mud Weight	8.3	9.4	#/gal
Drill Solids	4	6	Percent
pH	9	9.5	
Funnel Viscosity	26	40	sec/qt
Fluid Loss	NC	NC	cc/30 min

- 2) Vertical Well Bore
 Depth: $\pm 1,675'$ to $\pm 5,535'$ picked by Mud logger.
 Bit Size: 9 $\frac{7}{8}$ "
 Mud Type: FW/gel/PHPA/LSND
 Hole Volume: 300 bbls
 Pit Volume: 500 bbls

Mud Properties	Minimum	Maximum	Units
Mud Weight	9.7	10.2	#/gal
Drill Solids	4	6	Percent
pH	9	10	
Plastic Viscosity	4	10	
Yield Point	6	12	
Funnel Viscosity	35	40	sec/qt
Fluid Loss	12	15	cc/30 min

- 3) Open Hole Well Bore
 Depth: $\pm 5,535'$ to $\pm 5,779'$ TD
 Bit Size: 6 $\frac{1}{8}$ " with Underreamer 12" OD
 Mud Type: N2
 Hole Volume: bbls
 Pit Volume: bbls

Mud Properties	Minimum	Maximum	Units
Mud Weight	8.8 – Formation KW	10.2	#/gal
Drill Solids	na	na	
pH	na	na	
Plastic Viscosity	na	na	
Yield Point	na	na	
Funnel Viscosity	Na	Na	
Fluid Loss	na	na	

Weatherford International will supply Nitrogen for the Underbalanced portion of open hole from 5,535' to 5,779'. The package consist of 2 Ariel compressors with 1350SCFM capacity and one N2 membrane Unit with 1500 SCFM capacity. These units will rig up directly in front of the Dog House on the Location Layout diagram

Logging, Testing, Coring Program

Logging of the vertical well bore will include Induction or Laterlog, Density/Neutron, Sonic (possible Dipole). No other logs or test are anticipated.

Anticipated Drilling Hazards

In addition to the general hazards listed in the table below: Hydrogen sulfide (H₂S) in excess of 100 ppm is anticipated in the Desert Creek zone. Potential for exposure to H₂S near areas of fluid breakout (i.e. flowline, shaker, floor connections, etc.) will be minimized by having an overbalanced mud system. An H₂S Drilling Operations Plan has been developed and is attached to this drilling plan.

Potential Hazards	Preventive/Corrective Measures
Water flow between $\pm 780'$ and $\pm 1,625'$	Have conductor set, increase mud weight and use diverter to divert flow from around substructure to pit
Pressure kick when drilling into the Ismay formation.	Maintain mud weight to avoid kick around. 10.6 #/gal minimum
Corrosion from H ₂ S in Ismay	A thin coating amine will be run as a corrosion inhibitor to protect downhole equipment
Possible differential sticking from nearby production from Desert Creek	If sticking occurs, consider using spotting acid to break free
Low fracture gradient	Use two stage cement job on long string

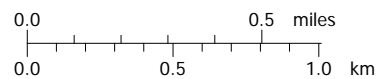
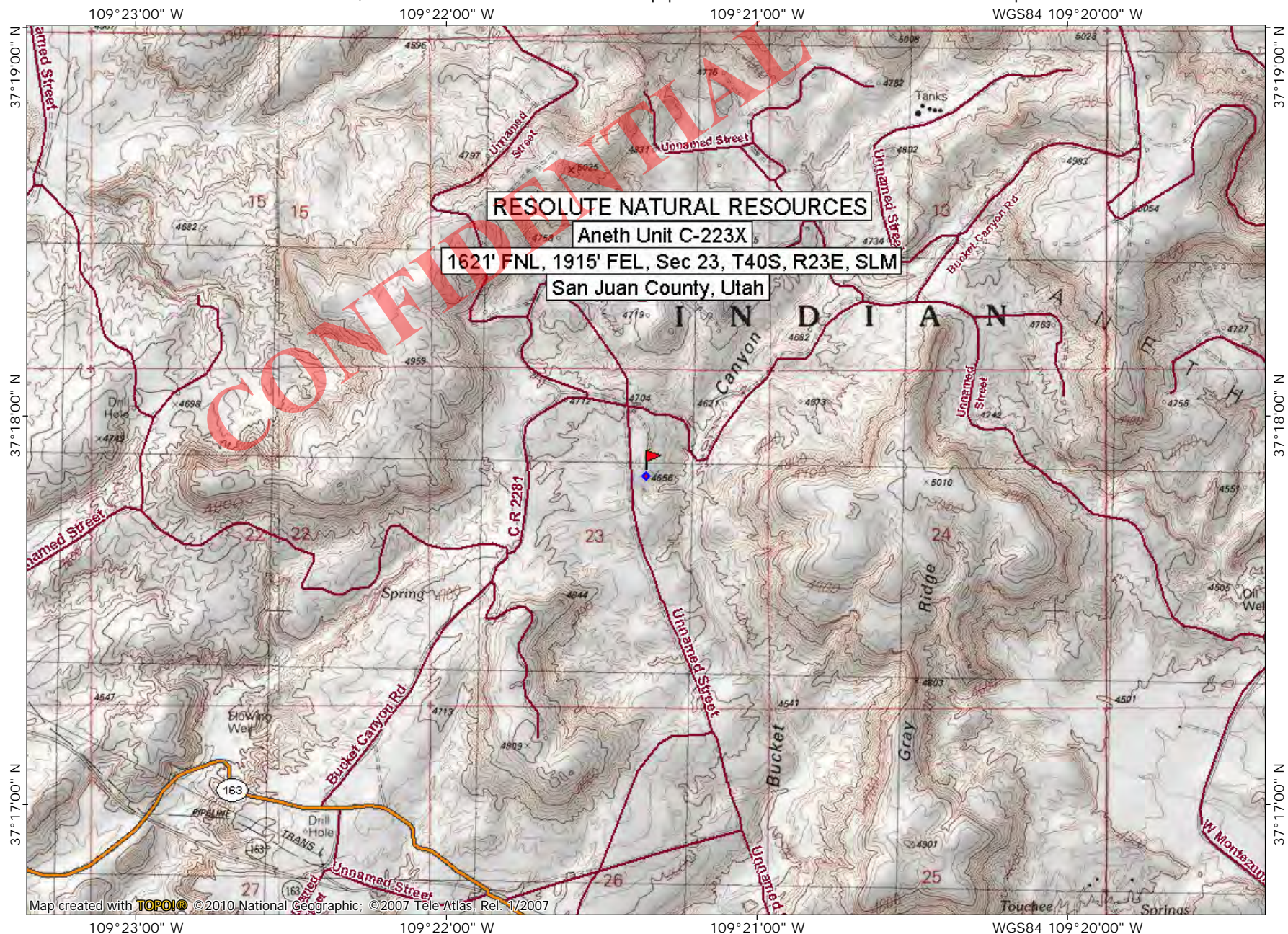
Drilling Tools

Conventional rotary drilling tools will be used to drill the proposed well. This will included Tri-Cone roller bits as well as PDCs in conjunction with nominal sized Drill collars appropriate to hole size and weight on bit needs. Conventional Drill Pipe will be used for all drilling operations appropriate to hole size.

Drilling Tools by Interval				
0-90'				
Tool	Size	Length-Ft	Weight-lbs	Description
Bit	20"	2	560	Mill tooth Tri-Cone bit
Drill Collars	8"	90	14400	Smooth Drill Collars 160#/ft
90' to 1675'				
Bit	14 3/4"	1.5	225	Mill tooth Tri-Cone bit
Drill Collars	8"	180	28800	Smooth Drill Collars 160#/ft
Drill Collars	6 1/2"	300	30600	Smooth Drill Collars 102#/ft
1675' to 5535'				
Bit	9 7/8"	1	80	Tri-Cone TCI bits and PDC
Drill Collars	6 1/2"	540	55080	Smooth Drill Collars 102#/ft
5535' to 5779'				
Bit	6 1/8"	1	22	Tri-Copne TCI bit
Hole Opener	43/4"x12"	4.5	75	Hole opener(underreamer) 16#/ft
Drill Collars	4 3/4"	240	6480	Smooth Drill Collars 24#/ft

HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

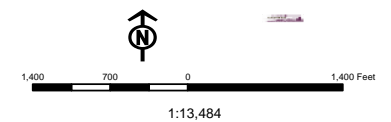
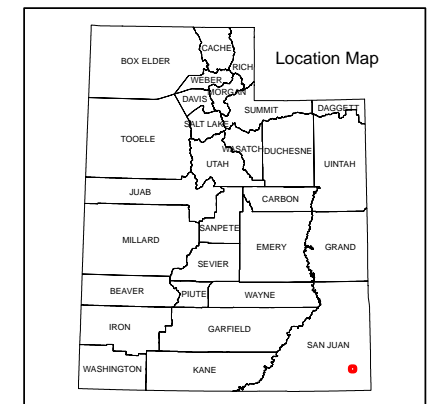
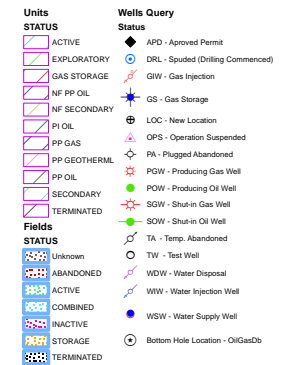
37°17'52" N, 109°21'21" W WGS84TOPO! map printed on 06/21/12 from "AU C-223X.tpo"



TN★MN
10½°
06/21/12

RECEIVED: October 16, 2012

Map Produced by Diana Mason



Resolute

October 18, 2012

Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Mr. Brad Hill, Oil & Gas Permitting Manager
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: Application for Permit to Drill the Aneth Unit C-223X

Mr. Hill:

Pursuant to R649.3.3, Resolute Natural Resources respectfully requests that the Division grant an exception to the location and siting requirements of R649-3-2 for the proposed Aneth Unit C-223X well.

The proposed location of the Aneth Unit C-223X was chosen in order to minimize surface disturbing activities. The existing access and pad for the plugged and abandoned Aneth C-223 well (API#43-037-16276) will be used for this new well, thus minimizing the amount of cut and fill work and future reclamation work required for the proposed operations in an area with varied topography.

This location also provides for more room between the well and the five hundred foot setback from our Aneth Unit boundary implemented by Cause 152-1.

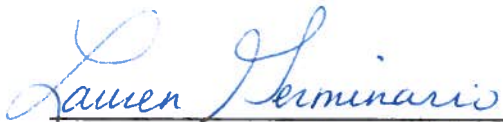
The only additional lease owner within four hundred and sixty feet of the proposed location for the Aneth Unit C-223X well is the Navajo Nation Oil and Gas Company. Below please find the signature of a representative for the Navajo Nation Oil and Gas Company acknowledging their consent to the proposed well location.

Regards,



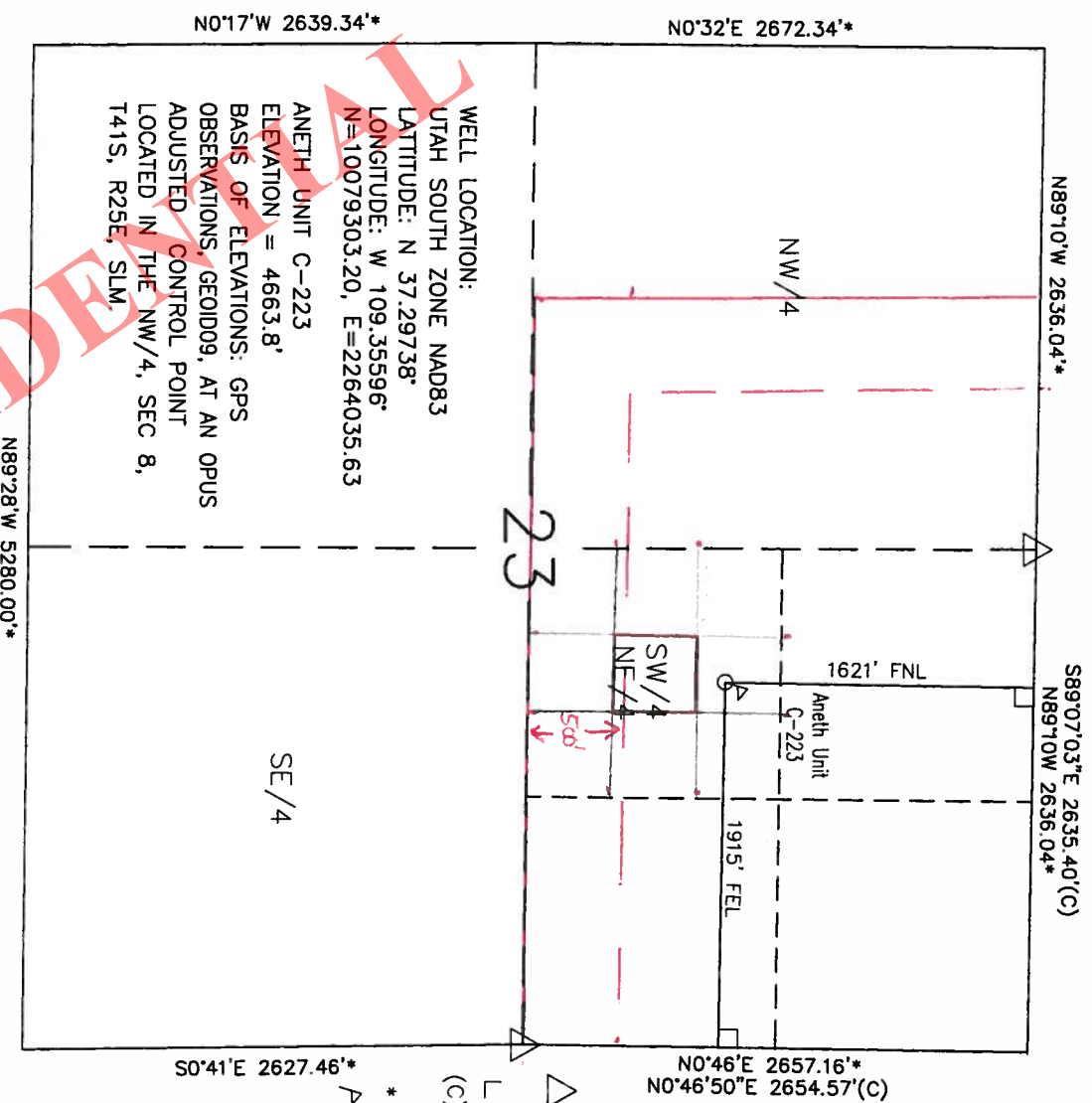
J. Scott Lewis
Landman

NAVAJO NATION OIL AND GAS COMPANY



By: Lauren Germinario
Title: Land Manager

Well Location - Aneth Unit C-223X



BASIS OF BEARINGS
GPS TRUE NORTH



N0°46'E 2657.16'*
N0°46'50"E 2654.57'(C)

LEGEND:

- △ FND USBLM 3-1/4" BC
- └ 90° TIE
- (C) NE CORNER CALCULATED BY DOUBLE PROPORTIONATE * RECORD - BLM 1983
- ▲ WELL LOCATION

WELL LOCATION:

UTAH SOUTH ZONE NAD83
LATITUDE: N 37.29738°
LONGITUDE: W 109.35596°
N=10079303.20, E=2264035.63

ANETH UNIT C-223
ELEVATION = 4663.8'
BASIS OF ELEVATIONS: GPS
OBSERVATIONS, GEIOD09, AT AN OPUS
ADJUSTED CONTROL POINT
LOCATED IN THE NW/4, SEC 8,
T41S, R25E, SLM

I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the well location as shown hereon and that the same is correct and true to the best of my knowledge and belief.

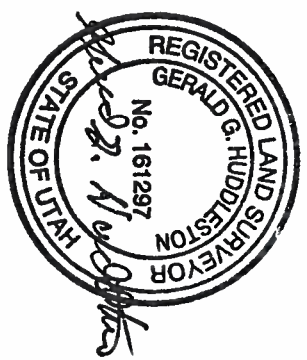


EXHIBIT A

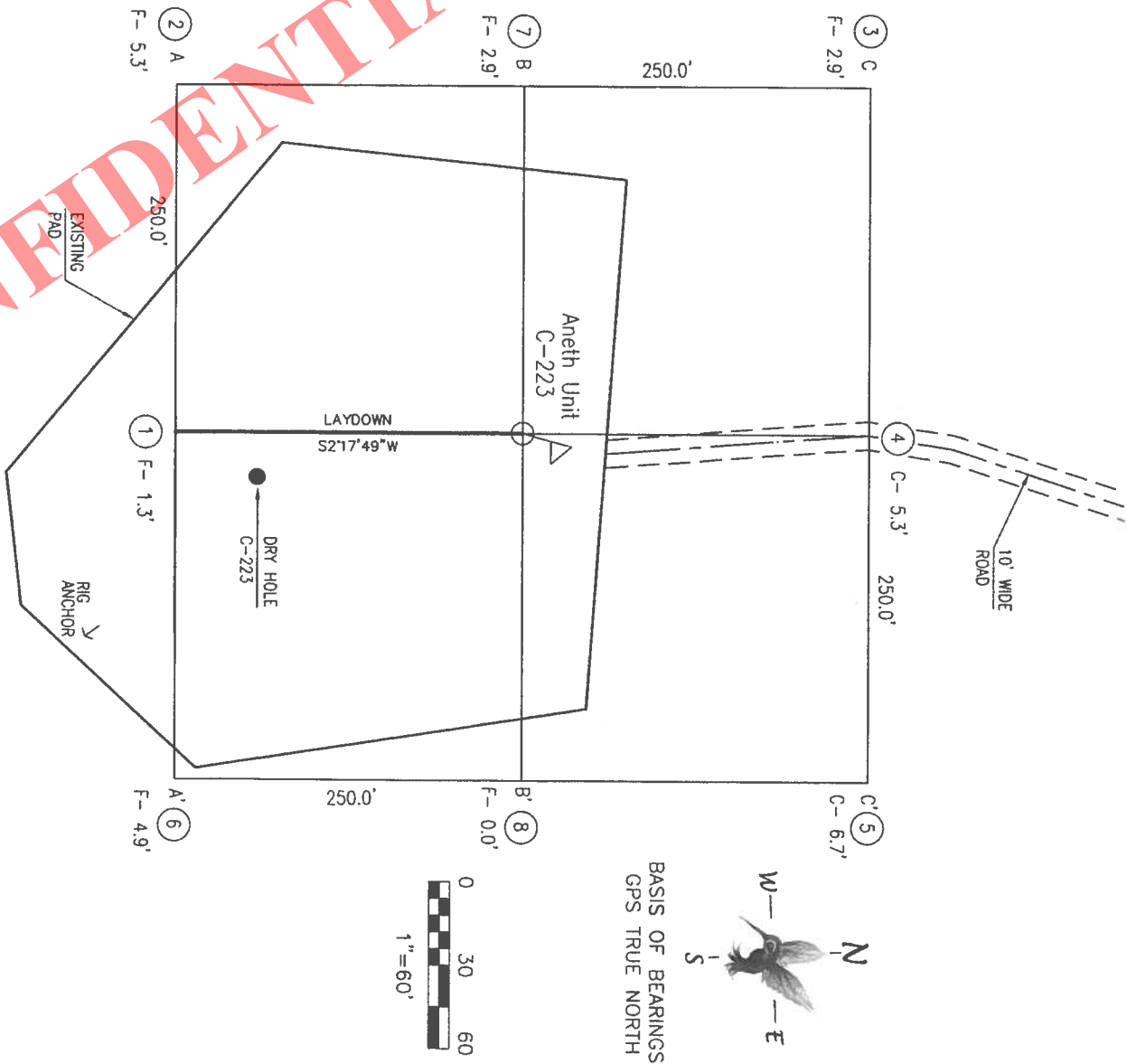
FOOTAGE: 1621' FNL	1915' FEL
SEC 23, T40S, R23E, SLM, SAN JUAN COUNTY, UT	
LAT: N 37.29738°	LON: W 109.35596°
ELEVATION: 4663.8' at ground level (NAVD88)	NOTE:
HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108	

RESOLUTE
NATURAL RESOURCES

SURVEYED: 06/14/12

DRAWN BY: GEL DATE: 06/19/12

Well Pad - Aneth Unit C-223X



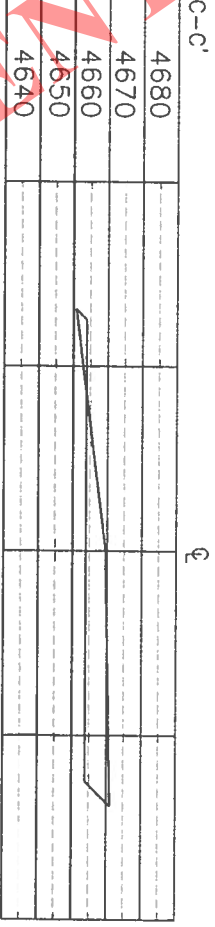
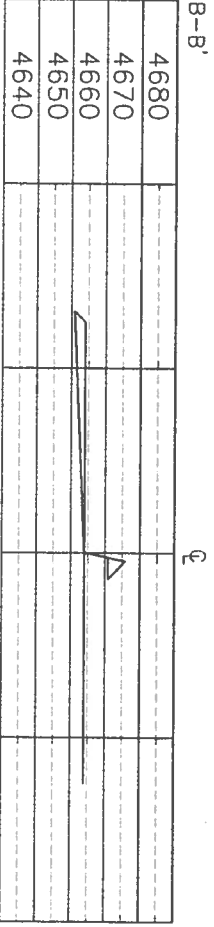
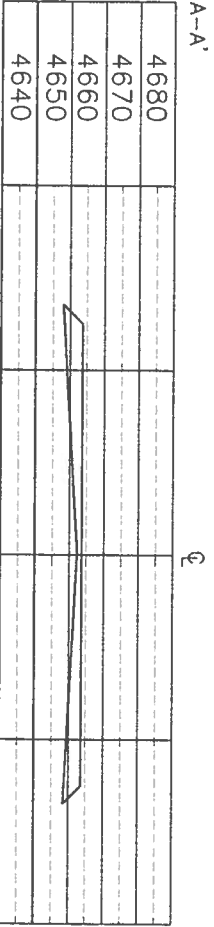
It shall be the responsibility of the Contractor to verify the location, depth and condition of all existing utilities and conduct all necessary field investigations prior to any excavation.
OneCall 800-662-5348

EXHIBIT B

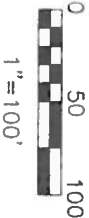
FOOTAGE: 1621' FNL	1915' FEL	RESOLUTE	
SEC 23, T40S, R23E, SLM, SAN JUAN COUNTY, UT		NATURAL RESOURCES	
LAT: N 37.29738°	LON: W 109.35596°	SURVEYED: 06/14/12	
ELEVATION: 4663.8' at ground level (NAVD88)		DRAWN BY: GEL	DATE: 06/19/12
		NOTE:	

HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

Cross Section - Aneth Unit C-223X



HORIZONTAL 1"=100'
VERTICAL 1"=50'



LEASE: Aneth Unit C-223X
EXHIBIT C

FOOTAGE: 1621' FNL 1915' FEL

SEC 23, T40S, R23E, SLM, SAN JUAN COUNTY, UT

LAT: N 37.29738° LON: W 109.35596°

SURVEYED: 06/14/12

DRAWN BY: GEL

DATE: 06/19/12

FILE:

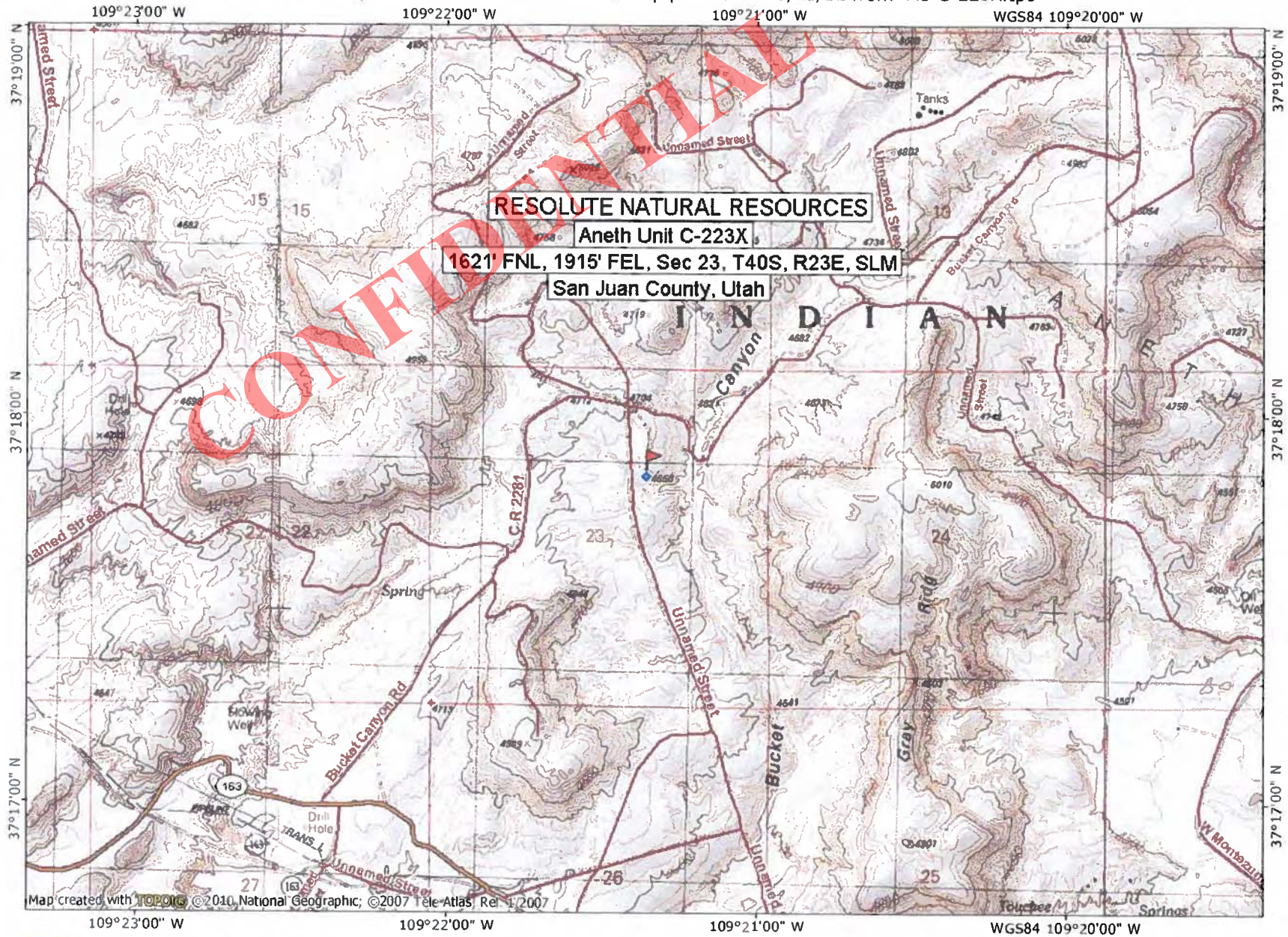
ELEVATION: 4663.8' at ground level (NAVD88)

NOTE:

RESOLUTE
NATURAL RESOURCES

HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

37°17'52" N, 109°21'21" W WGS84TOPOI map printed on 06/21/12 from "AU C-223X.tpo"



0.0 0.5 miles
0.0 0.5 1.0 km

TN MN
10½°
06/21/12

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/16/2012

API NO. ASSIGNED: 43037500370000

WELL NAME: Aneth C-223X

OPERATOR: RESOLUTE NATURAL RESOURCES (N2700)

PHONE NUMBER: 303 534-4600

CONTACT: Sara Bohl

PROPOSED LOCATION: SWNE 23 400S 230E

Permit Tech Review: ☒

SURFACE: 1621 FNL 1915 FEL

Engineering Review: ☐

BOTTOM: 1621 FNL 1915 FEL

Geology Review: ☒

COUNTY: SAN JUAN

LATITUDE: 37.29766

LONGITUDE: -109.35593

UTM SURF EASTINGS: 645716.00

NORTHINGS: 4129161.00

FIELD NAME: GREATER ANETH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTSL 071010

PROPOSED PRODUCING FORMATION(S): DESERT CREEK

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - UTB000169☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 09-1428☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: ANETH

☐ R649-3-2. General☒ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 152-7

Effective Date: 4/22/1998

Siting: Does not suspend general siting

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill
4 - Federal Approval - dmason

RECEIVED: November 01, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Aneth C-223X
API Well Number: 43037500370000
Lease Number: UTSL 071010
Surface Owner: FEDERAL
Approval Date: 11/1/2012

Issued to:

RESOLUTE NATURAL RESOURCES, 1675 Boradway Ste 1950, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 152-7. The expected producing formation or pool is the DESERT CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

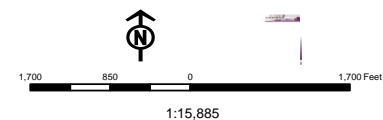
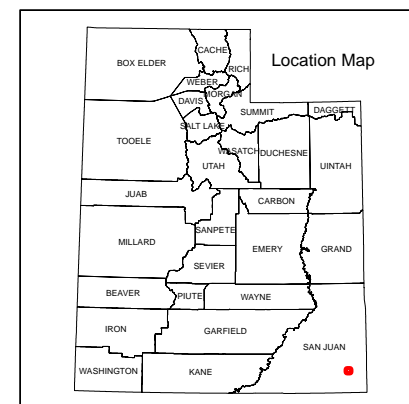
- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

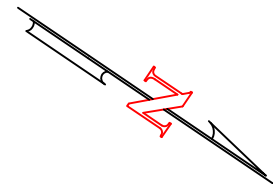
For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010			
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ANETH			
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		8. WELL NAME and NUMBER: Aneth C-223X			
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		9. API NUMBER: 43037500370000			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Resolute Natural Resources Co, LLC requests permission to move the pad location of the C223X to be combined with the C123. The BLM (surface owner) wants to minimize surface disturbance. The new location is noted in the attached plat. The surface location of the well will now be: T. 40 S., R. 23 E., sec. 23, NWNE, 828' FNL, 1900' FEL. BHL: SWNE, 1621' FNL, 1915' FEL (same as permitted).					
NAME (PLEASE PRINT) Sara Bohl		PHONE NUMBER 303 534-4600			
SIGNATURE N/A		TITLE Regulatory Analyst DATE 7/11/2013			



**BEFORE DIGGING
CALL FOR UTILITY
LINE LOCATION!**

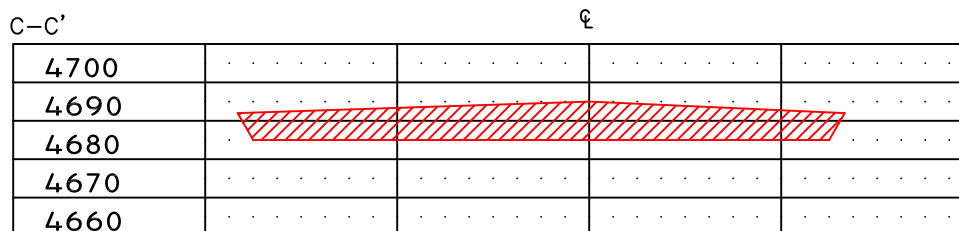
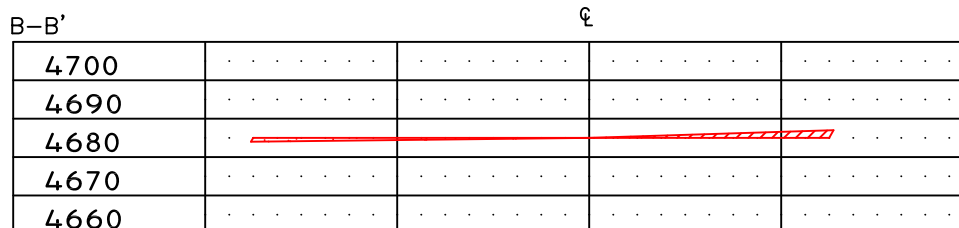
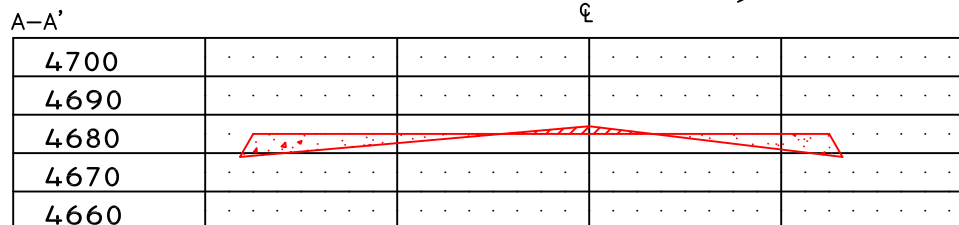
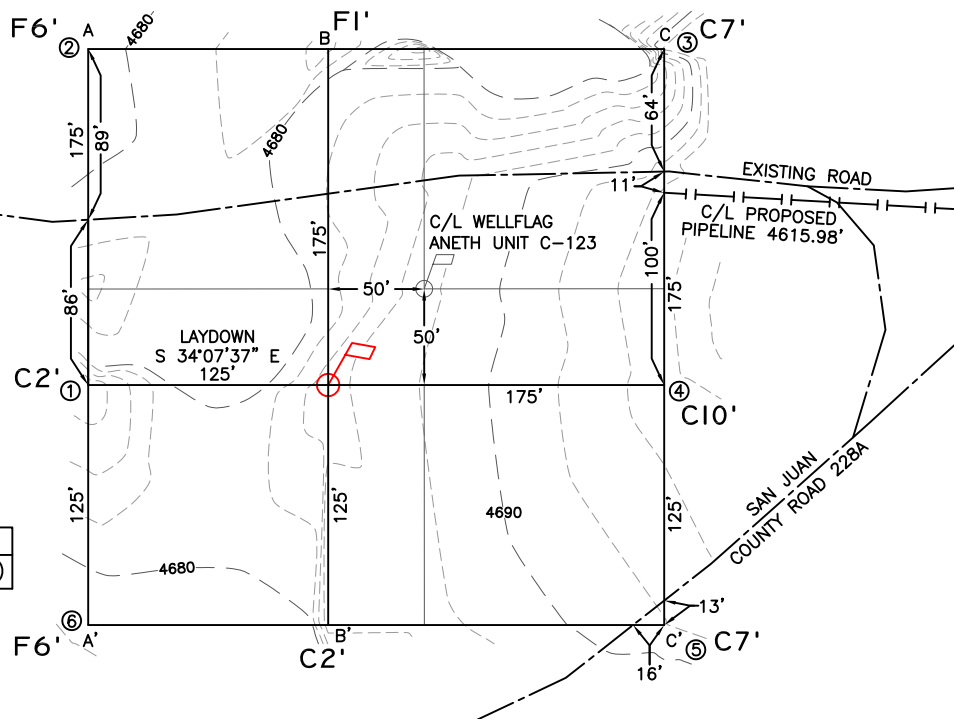
EXISTING
2 TRACK ROAD



0 50 100
SCALE: 1"=100'

CUT	FILL	NET
7812 Cu. Yd.	8355 Cu. Yd.	543 Cu. Yd. (FILL)

NOTE:
THE EARTH QUANTITIES ON THIS DRAWING ARE
ESTIMATED AND THE USE OF THIS IS AT THE
RESPONSIBILITY OF THE USER.



CROSS SECTIONS

HORIZONTAL: 1"=100'

VERTICAL: 1"=50'

EXHIBIT 1A

LEASE: ANETH UNIT C-223X

828' FNL, 1900' FEL (SURFACE)
FOOTAGES: 1621' FNL, 1915' FEL (BOTTOM HOLE)

SEC. 23 TWN. 40 S RNG. 23 E S.L.M.

LATITUDE: N 37.2998212° LONGITUDE: W 109.3559137°

ELEVATION: 4685

RESOLUTE
NATURAL RESOURCES

SURVEYED: 01/04/13

REV. DATE: 03/28/13

APP. BY J.A.V.

DRAWN BY: H.S.

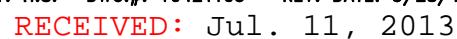
DATE DRAWN: 01/14/13

FILE NAME: 10421C03



P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408

RECEIVED: Jul. 11, 2013



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		7. UNIT or CA AGREEMENT NAME: ANETH
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		8. WELL NAME and NUMBER: Aneth C-223X
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PHONE NUMBER: 303 534-4600 Ext		9. FIELD and POOL or WILDCAT: GREATER ANETH
COUNTY: SAN JUAN		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/6/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Resolute spud this well on 9-3-13, drilling ahead. Drilling report is attached.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 September 06, 2013

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 9/6/2013	



Daily Activity Report

Well Name: C223X Aneth Unit

API Number 43037	Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,698.00	Casing Flange Elevation (ft) 4,681.50	KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft) 33.00	Well Spud Date/Time 9/2/2013 10:00	Rig Release Date/Time	

Job Category Drilling	Primary Job Type Drilling - original	Secondary Job Type
Start Date 9/1/2013	End Date	AFE Number 10012004
Objective Drill and complete a vertical injector.		
Contractor D&J		Rig Number 1
Report Start Date 8/6/2013		Rig Type Drilling - Double
Report End Date 8/6/2013	Operations Summary Engineering Consultant Services	
Report Start Date 8/12/2013	Operations Summary Set and test 4 anchors to 25K, test ok, installed 4 anchor tags	
Report End Date 8/12/2013		
Report Start Date 9/1/2013	Operations Summary Safety meeting with M&R Trucking, Move rig F/AU C-123 - T/AU C-223X, Spot in and R/U equipment, Raise derrick @ 11:30, Weld flange on 16" conductor casing, N/U 13 5/8" annular stack and function test same, Drlg mouse and rat hole	
Report End Date 9/2/2013		

Dur (hrs)	Comment
	0.50 Pre move safety meeting with M&R Trucking and all personal on location. 5.00 Move rig on same pad, F/AU C123 - T/AU C-223X 5.50 Spot in & R/U equipment, raise derrick @ 11:30, 4.00 Weld on 13 5/8" x 3000# flange on 16" conductor casing. 7.00 N/U 13 5/8" drilling spool, annular, rotating head, hook flow line and remote choke. 1.00 P/U 12 1/4" bit and mud motor. 1.00 Drlg rat and mouse hole, L/D mud motor.

Report Start Date 9/2/2013	Report End Date 9/3/2013	Operations Summary Finish drlg mouse and rat hole, MU 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94', Drlg 12.25" surface hole F/94' - T/675'.
-------------------------------	-----------------------------	--

Dur (hrs)	Comment
	1.00 Finish drlg mouse and rat hole 1.00 P/U drlg bales, elevators and lay directional tools on racks. 1.50 M/U 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94' 0.50 Change shaker screens. 9.00 Drlg 12.25" surface hole F/94' - T/328' 0.50 Pull flow nipple, install drlg head rubber and drivers. 10.50 Drlg 12.25" surface hole F/94' - T/675'

Report Start Date 9/3/2013	Report End Date 9/4/2013	Operations Summary Drlg 12.25" surface hole F/675' - T/845', Mud motor not giving build necessary to follow directional plan, Circulate and W.O.O from engineer, TOO H F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor, P/U new motor set 2.42 bend, M/U new Security 12.25" bit, orientate directional tools, TIH no fill, Drlg F/845' - T/1046', Rig repair (Shale shaker), POOH to 90', Rig repair (Shale shaker)
-------------------------------	-----------------------------	---

Dur (hrs)	Comment
	7.50 Drlg 12.25" surface hole F/675' - T/845' 1.50 Mud motor not giving build nessary to follow directional plan, Circulate and W.O.O from engineer 2.00 TOO H F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor. 1.00 P/U motor set at 2.42, M/U new bit, orientate MWD tools. 1.50 TIH F/90' - T/845', No fill 5.00 Drlg 12.25" surface hole F/845' - T/1046' 2.00 Shale shaker down due to electrical problems. 1.50 POOH F/1046' - T/90' 2.00 Wait on electrician, Work on shale shaker

Report Start Date 9/4/2013	Report End Date 9/5/2013	Operations Summary Rig repair, TIH (No fill), Drlg F/1046' - T/1291', Rig service, Drlg F/1291' - T/1601'
-------------------------------	-----------------------------	--

Dur (hrs)	Comment
	9.50 Wait on electrician, Work on shale shaker, Replace shaker motor and wiring harness 1.50 TIH F/90' - T/1046', No fill. 5.50 Drlg F/1046' - T/1291' 0.50 Service rig, Check brake pins, grease swivel 7.00 Drlg F/1291' - T/1601'

Report Start Date 9/5/2013	Report End Date 9/6/2013	Operations Summary Drlg F/1601' - T/1680' (TD), circulate, flow check (no flow). Short trip to 900' (No fill). TOO H, LD directional BHA. RU casing crew and run 40 jts 9 5/8" 36#, J-55, set at 1676.7'. Cement surface casing, plug did not bump after 2.5 bbls past calculated displacement. Check floats (Hold), 70 bbls cement circulated to surface. SI cement head, WOC. Cement fell back to 45'. Pump 7 bbls on mouse and rat hole on the AU C123, spot in Zeco closed-loop equipment. Top out cement w/3.8 bbls, cement top @ 45'. ND 13-5/8" annular stack. Rough cut 9 5/8" surface casing.
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Daily Activity Report

Well Name: C223X Aneth Unit

API Number 43037	Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,698.00	Casing Flange Elevation (ft) 4,681.50	KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft) 33.00	Well Spud Date/Time 9/2/2013 10:00	Rig Release Date/Time	

Dur (hrs)	Comment
3.50	Drig F/1601' - T/1680' (TD)
1.00	Circulate and condition hole for surface casing run job. Flow check (no flow)
1.00	POOH F/1680' - T/900', Chain out
0.50	RIH F/900' - T/1680', no fill
3.00	TOOH w/8 stds drill pipe, Lay down 12 jt HWDP, TOO H w/10 stds HWDP and 1std 6 1/4" DC, Lay down directional tools.
4.00	PJSM, R/U casing crew and run 40 jts 9 5/8" 36#, J55 casing as follows, Float shoe, 1- jt 9 5/8" 36#, J55, Float collar, 39 jts 9 5/8" 36#, J55, set at 1676.7'
1.00	Circulate and reciprocate casing on bottom.
2.00	PJSM, Cement as follows, Pressure test lines to 2500 psi, Pump 10bbl FW spacer, Pump 10bbl Flush spacer, Pump 20bbl FW spacer, Pump 425 sks @ 12.3#, 1.97 yield (149.1 bbls) lead Halliburton premium lite-SBM cement with 5 lbm Kol-Seal bulk, 0.125 lbm Poly-E-Flake, 2% Calcium Chloride with FW @ 10.17 gal/sk, Pump 190 sks @ 15.8#, 1.15 yield, (38.9 bbls) tail cement with, 94 lbm Premium-Class G Reg, 0.125 lbm Poly-E-Flake with FW @ 4.97 gal/sk, Shut down, Drop plug, Displace with 128.9 bbls FW (2.5 bbls over calculated volume), FCP 527, Plug did not bump, Check floats, Bleed back .5 bbl to tank, 70 bbls cement returns to surface.
	Pump 7 bbls to up fill up rat and mouse hole on AU C123
5.00	WOC, Cement fell back to 45', Top out cement job on mouse and rat hole on the AU C123, Spot in Zeco closed loop equipment.
1.00	Top out cement as follows, Pump .5 bbls FW, Pump 100 sks (20.5 bbls) @ 15.6 ppg, Yield 1.15 with 5 gal/sks, 16.7bbls cement to surface, R/D Halliburton cementers. Calculated cement top @ 45'
2.00	L/D cement head, P/U annular, Rough cut conductor casing.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010			
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ANETH			
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		8. WELL NAME and NUMBER: Aneth C-223X			
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		9. API NUMBER: 43037500370000			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/8/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> Resolute proposes to amend the casing and cementing program submitted with the original permit for the subject well. Attached are amended program details. </div> <div style="width: 30%; text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining Date: September 23, 2013 By: </div> </div>					
NAME (PLEASE PRINT) Sherry Glass		PHONE NUMBER 303 573-4886			
SIGNATURE N/A		TITLE Sr Regulatory Technician DATE 7/31/2013			

AU C223X Casing Change Sundry Information

Depth	Hole Diameter	Casing Diameter	Casing Weight, Grade, Condition	◆ Safety Factor (Sf _B , Sf _C , Sf _T)	Cement
Conductor Pipe 0' – 90' TVD	20"	16"	65 ppf H-40 (drift: 15.06") <u>Properties:</u> Collapse: 670 psi Burst: 1,640 psi Body Yield: 736,000 lbs		Ready Mix Cement Back to Surface
Surface Casing 0' – 1,650' TVD	12-1/4"	9-5/8"	36 ppf J-55 STC R3 New (drift: 8.765") <u>Properties:</u> Collapse: 2,020 psi Burst: 3,520 psi Jt. Strength: 639,000 lbs Body Yield: 564,000 lbs	Sf _C – 2.8 Sf _B – 2.2 Sf _T – 11.0	(Cement back to Surface)* Lead: ~ 400 sx Halliburton Light Premium yield: 1.97 ft ³ /sx wt: 12.3-ppg Tail: ~100 sx Premium Class G Cement yield: 1.15 ft ³ /sx wt: 15.8-ppg
Production Casing 0' – 5,540' TVD	8-3/4"	7.0"	26 ppf J-55 LTC R3 New (drift: 6.151") <u>Properties</u> Collapse: 4,320 psi Burst: 4,980 psi Jt. Strength: 490,000 lbs Body Yield: 415,000 lbs	Sf _C - 1.6 Sf _B - 1.78 Sf _T – 3.0	(Cement back to Surface)* First Stage Lead: ~ 260 sx Halliburton Light Class G Premium yield: 1.95 ft ³ /sx mix fluid: 10.04 gal/sx wt: 12.3-ppg Second Stage Tail: ~100sx Halliburton Light Premium Class G yield: 1.15 ft ³ /sx mix fluid: 4.96 gal/sx wt: 15.80 ppg DV Tool @ 6,500' TVD
OH Section 5,540' – 5,779'	6-1/8"				

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; RESOLUTE NATURAL RESOURCES

Well Name: ANETH C-223X

Api No: 43-037-50037 Lease Type FEDERAL

Section 23 Township 40S Range 23E County SAN JUAN

Drilling Contractor D & J DRILLING RIG # 1

SPUDDED:

Date 09/01/2013

Time _____

How DRY

Drilling will Commence: _____

Reported by LARRY CANDELARIA

Telephone # (505) 330-7065

Date 08/31/2013 Signed CHD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/19/2013			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute completed this injection well on 12-19-13 to begin injection for local area oil production enhancement. The completion report was submitted 1-8-14.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 08, 2014

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A		DATE 1/8/2014



Daily Activity Summary

Well Name: C223X Aneth Unit

API Number 4303750037		Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80		Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)		Regulatory Spud Date 9/2/2013 10:00
Job Category Drilling & Completion		Primary Job Type Drilling & Completion Original					
Start Date 9/1/2013		End Date					
Objective Drill and complete a vertical injector.							
Contractor D&J		Rig Number 1		Rig on Report Date 9/1/2013		Rig off report date 9/24/2013	
Contractor TOPPS		Rig Number 6		Rig on Report Date 9/27/2013		Rig off report date 10/21/2013	
Contractor Tefteller		Rig Number		Rig on Report Date 12/13/2013		Rig off report date 12/13/2013	
Report Number	Start Date	End Date	Summary				
1	8/6/2013	8/6/2013	Engineering Consultant Services				
2	8/12/2013	8/12/2013	Set and test 4 anchors to 25K, test ok, installed 4 anchor tags				
3	9/1/2013	9/2/2013	Safety meeting with M&R Trucking, Move rig F/AU C-123 - T/AU C-223X, Spot in and R/U equipment, Raise derrick @ 11:30, Weld flange on 16" conductor casing, N/U 13 5/8" annular stack and function test same, Drlg mouse and rat hole				
4	9/2/2013	9/3/2013	Finish drlg mouse and rat hole, MU 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94', Drlg 12.25" surface hole F/94' - T/675'.				
5	9/3/2013	9/4/2013	Drlg 12.25" surface hole F/675' - T/845', Mud motor not giving build necessary to follow directional plan, Circulate and W.O.O from engineer, TOO H F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor, P/U new motor set 2.42 bend, M/U new Security 12.25" bit, orientate directional tools, TIH no fill, Drlg F/845' - T/1046', Rig repair (Shale shaker), POOH to 90', Rig repair (Shale shaker)				
6	9/4/2013	9/5/2013	Rig repair, TIH (No fill), Drlg F/1046' - T/1291', Rig service, Drlg F/1291' - T/1601'				
7	9/5/2013	9/6/2013	Drlg F/1601' - T/1680' (TD), Circulate, Flow check (no flow), Short trip to 900' (No fill), TOO H, L/D directional BHA, R/U casing crew and run 40 jts 9 5/8" 36#, J55 set at 1676.7', Cement surface casing, Plug did not bump after 2.5 bbls past calculated displacement, Check floats (Hold), 70 bbls cement circulated to surface, Shut in cement head, WOC, Cement fell back to 45', Pump 7 bbls on mouse and rat hole on the AU C123, Spot in Zeco closed loop equipment., Top out cement w/3.8 bbl ,Cement top @ 45', N/D 13 5/8" annular stack, Rough cut 9 5/8" surface casing.				
8	9/6/2013	9/7/2013	ND annular, cut off conductor casing. Final cut surface casing, weld on wellhead type 11" x 3000, C22 bowl. NU 11" BOP, annular, rotating head and stinger to choke, R/U gas buster, Pre fab 8" manifold to ZECO shale shakers and tie in 8" flow line. Pressure test 11" BOPE. Cut 120' drlg line, P/U 8 3/4" directional BHA.				
9	9/7/2013	9/8/2013	Wait on jet nozzles for Security bit. Lay out & PU directional BHA, orintate MWD tools. TIH, tag cement @ 1622', float collar @ 1631'. Trouble shoot 4 1/16" HCR valve. Undetermined if HCR valve actually opened during BOPE pressure testing operations. TOO H to replace 4 1/16" HCR valve. ND & remove 4 1/16" HCR valve. WO 4 1/16" HCR to be delivered from town. Transfer mud from rig & closed-loop mud tanks to frac tanks on location. Fill mud tanks with PDS mud transferred from Aztec rig 920. NU 4 1/16" HCR valve & hook up choke flex hose. Pressure test HCR and choke manifold. TIH tag cement 1622', Drl 8 3/4" shoe track, 13' good cement in shoe joint. Drlg formation F/1680' - T/1706'. Closed-loop generator went down. Pulled bit up into surface shoe. Shut the job down until ZECO is able to supply qualified hands on location.				
10	9/8/2013	9/9/2013	Replacement generator showed up @ 08:30, still waiting on ZECO for experienced/qualified personal to arrive on location. Circulate and condition mud in mud pits. Drlg formation F/1706' - T/2621'.				
11	9/9/2013	9/10/2013	Drlg F/2621' - T/3696'				
12	9/10/2013	9/11/2013	Drlg F/3696' - T/4271'				
13	9/11/2013	9/12/2013	Drlg F/4271' - T/4959'				
14	9/12/2013	9/13/2013	Drlg F/4271' - T/5303', Rig service, Drlg F/5303' - T/5493'				
15	9/13/2013	9/14/2013	Drlg F/5493' - T/5630' (TD), Circulate, pump 2 high vis sweeps, Flow check (No flow), TOO H, L/D directional tools, TIH w/clean out assembly, Tag fill @ 5580', Work tight hole, Ream F/5514' T/5630', Circulate pump sweeps, Short trip.				
16	9/14/2013	9/15/2013	Continue short trip, POOH F/5630' - T/4399', TIH no fill, TOO H F/logs, Run logs, TIH, Circulate, LDDP & BHA, XO pipe rams, R/U csg crew, Run 25 jts - 7" 26#, J-55, LT&C casing.				
17	9/15/2013	9/16/2013	Finish run 7" Int csg set @ 5626.2. Cement first stage, bump plug @ 14:50 on 9/15/2013. FCP 950 psi, bled back 1.25 bbl. Open Stage tool @ 578 psi. Circ 25 bbls cement to pit, circulate between stages. Cement 2nd stage, bump plug @ 20:11 on 9/15/2013. FCP 640 psi, close stage tool, check floats, bled back .75 bbl. Circ 17 bbls cement to surface. ND BOP's, set 7" casing slips w/ 95K. Install 11" 3M x 7-1/16" 5M "B" section, test secondary seal to 2500 psi, (held OK). NU 7-1/16" BOPE, pressure test BOPE.				
18	9/16/2013	9/17/2013	Test BOPE, weld 8" flow line. PU 6-1/8" BHA, PU 3-1/2" DP. TIH, tag drill cement & DV tool F/2496' T/2530'. Pressure test casing T/1500 psi, TIH.				
19	9/17/2013	9/18/2013	TIH, tag & drl cement and FC F/5584' T/5602'. TIH w/ wireline tools. Condition mud to weight up from 9.2 lbs T/10.0 lbs. Drill 6-1/8" hole section F/5630' T/5692'.				



Daily Activity Summary

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Ground Elevation (ft) 4,663.80		Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)	Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00
Report Number	Start Date	End Date	Summary				
20	9/18/2013	9/19/2013	Circulate condition hole, drill 6-1/8" hole F/5692' T/5698'. TOOH, LD 6-1/8" BHA. MU 4.50" core BHA. TIH, drill core F/5688' T/5708'. Run wireline in drill string pull plug. TOOH w/ wireline, TIH w/ wireline, pull core barrel w/core to second core barrel. TOOH w/ core. LD core BHA. Rig Service, MU 6-1/8" BHA, TIH.				
21	9/19/2013	9/20/2013	TIH 6-1/8" BHA, drill 6-1/8" hole F/5708' T/5735', TOOH. MU core BHA, TIH, core F/5735' T/5745'. MU and run wireline.				
22	9/20/2013	9/21/2013	TOOH, Lay down 4.50" Core #2, M/U 6-1/8" BHA, TIH, Drill 6-1/8" hole section F/5745' T/5770', TOOH, M/U 4.50" Core BHA, TIH, Ream 15' of fill.				
23	9/21/2013	9/22/2013	Continue to ream to bottom @ 5770', Circulate, Core F/5770' - T/5780, POOH to intermediate csg shoe, R/U run Wire line in DP to pull pressure relief valve, Trip back in hole to pull core barrel up to second pressure barrel, TOOH L/D core tools, TIH, Drlg F/5780' - T/5860'				
24	9/22/2013	9/23/2013	Drlg F/5860' - T/5905', Circulate & pump sweep. POOH to intermediate casing shoe. Transfer mud to frac tanks, transfer 10# brine water to mud pits. TIH no fill, displace hole w/10# brine water. TOOH f/logs, log well with Baker.				
25	9/23/2013	9/24/2013	Finish logging operations, RD Baker wire line, RU Bluejet. Run and set Baker 7" RBP @ 5471'. RD Bluejet, TIH, LDDP & BHA, ND BOPE. Rig down all equipment. Prep to move rig from AU C223X - T/RU 20-42H. Rig released @ 06:00 on 9-24-13.				
26	9/24/2013	9/25/2013	Move rig.				
27	9/27/2013	9/27/2013	Move in and rig up.				
28	9/28/2013	9/28/2013	Pick up workstring. Retrieve RBP, TOOH with RBP and gauges. TIH with bit to TD @ 5905', no fill.				
29	9/30/2013	9/30/2013	Tooh with bit, tih with packer, make caustic sweep, flush out of hole.				
30	10/1/2013	10/1/2013	Acidize open hole with 3500 gals 20% acid, shut down 2 hrs. Pump 10# brine.				
31	10/2/2013	10/2/2013	Tooh with treating packer, tih with injection packer, set @ 5500', test @ 1010 psi lost pressure. Tooh, pick up packer, tih, set packer @ 2508', test to 5500', good, test to surface, bad.				
32	10/3/2013	10/3/2013	Circulate f/w, test casing, good. Circulate packer fluid, test casing, bad. Isolate leak 2445 to 2588'. DV tool @2482'.				
33	10/4/2013	10/4/2013	Prep well for cement.				
34	10/5/2013	10/5/2013	Cement squeeze DV tool @2482'				
35	10/7/2013	10/7/2013	Drill out cement.				
36	10/8/2013	10/8/2013	Test casing, good. Pull rbp, lay down tubing.				
37	10/9/2013	10/9/2013	Pick up TK injection tubing, circulate packer fluid. Land tubing. Nd bops. Pressure test casing, good. Install tree.				
38	10/10/2013	10/10/2013	Test casing and tubing. Retrieve plug from packer. Rig down, move off.				
39	10/11/2013	10/11/2013	Tbg at 650#, Csg at 0#, BH at 0#. Move in Well Check MIT tester, connect to csg. Pump pressure to 1010#, shut down and let Chart Record for 30 min, no leaks, pass MIT test. Witnessed by NNEPA Rep. Leroy Lee. Disconnect from csg, move off location. RE: C-223X is ready for flowing well/H2O injection once flowline/lateral line is connected to well head.				
40	10/21/2013	10/21/2013	RIH w/1 1/4: CT w/Basic CT nozzle. RIH to 5,633 (7" csg @ 5,626'). (Cleaned out w/6 1/8" to 5,905') Could not get past 5,633'. SD N2 and start wtr. Could not get past 5,633'. POOH w/CT. Bend CT to the North. Change out gasket. RIH w/CT to 5,906. (PBDT). CO. Getting back light gunk. No solids. After N2 quit, very light flow. POOH w/CT.				
41	11/23/2013	11/23/2013	Azeotrope / Methanol Multi phase cleaning, dean stark water and oil saturations, routine core analtsis				
42	12/11/2013	12/11/2013	SITP 150 psig, SICP 2,450 psig. Changed gauge to make sure of press. MIRU Tefteller (Adrian). RIH w/1.80 gauge ring and tgd profile nipple @ 5,497' WL depth. Bumped on-off @ 5,487'. POOH w/GR. RIH w/C1 running tl w/178R plug. Shear off, POOH. NU flowline to Frac Tank #258107. BD csg 2,450 psig to 0 psig in 15 seconds through choke. Small amt of oil flowed fr csg. Opened up tbg, puff of press. Tbg had a small flow, then quit. Sample of fluid to begin with looked like pkr fluid. RDMO Tefteller. After 45 min, still 0 psig on tbg and csg.				
43	12/12/2013	12/12/2013	SITP 0 psig, SICP 0 psig. Tbg has a slight flow. Get diesel to the csg valve. Press csg to 1,000 psig. Tbg flow did not increase. Leave csg @ 1,000 psig. Did not have drop in 30 min. Did not get any sign of red diesel from tbg after 1 hr.				
44	12/13/2013	12/13/2013	SITP 0 psig, SICP 750 psig, (pressure was left on csg). Press tbg to 2,700 psig, chart - held steady. BD tbg. Press csg to 1,000 psig - held steady. Did not communicate w/tbg. BD csg. MIRU Tefteller. RIH to 5,497' and puncture disc. Had a 100 psig bump in pressure from 0 psig on tbg. POOH. TIH and retrieve 1.78 plug. SWI, RDMO Tefteller.				
45	12/17/2013	12/17/2013	Started injectiing water in the morning. Checked press in the evening. FTP 1,980 psig, SICP 1,420 psig.				
46	12/18/2013	12/18/2013	FTP 2,120 psig. SITP 1,540 psig. NU vac truck. Bd csg to 0 psig. Small drop in tbg press than back to 2,120 psig. Let csg flow for 5 min. When csg vlv closed csg built 500 psig in less than 3 min.				



Daily Activity Summary

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Report Number	Start Date	End Date	Summary				
47	12/19/2013	12/19/2013	<p>SI inj line, (SITP 1,210 psig. SICP 1,550 psig.) Install bleed offs to determine if any press bleeding by hanger. Bleed csg dwn to 0 psig. Did not build csg press yesterday without injecting. Building csg press today without injecting. Csg press increased to 500 psig in less than 5 min. Open injection and build tbq press to 1,850 psig. Still no communication through hanger. Well has Russian adaptor and hanger w/extended neck. When shutting down injection press drpd fr 1,850 psig to 1,350 psig, then to 1,210 tbq psig. Well press stabilized @ 1,210 on tbq and 940 psig on csg. Talked with Billson and had chokes opened to give more tbq inj press. Tbg jumped to 1,940 psig and csg slowly climbed to 1,450 psig. Open csg and BD csg to 0 psig. Injection rate was @ 1,950 psig. Close csg valve, press jumped to 2,100 psig, then dropped to 1,300 psig. Tbg then went back to 2,100 psig and stabilized. Did not have any communication between csg slips and tbq hanger.</p>				

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☒ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER UTSL71010
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input checked="" type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Resolute Natural Resources		7. UNIT or CA AGREEMENT NAME UTU68927A
3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202		8. WELL NAME and NUMBER Aneth Unit C-223X
4. LOCATION OF WELL (FOOTAGES) AT SURFACE 828 FNL, 1900 FEL sec 23-T40S-R23E AT TOP PRODUCING INTERVAL REPORTED BELOW: 1604 FNL, 1887 FEL sec 23-T40S-R23E AT TOTAL DEPTH 1608 FNL, 1884 FEL, SWNE sec 23-T40S-R23E		9. API NUMBER: 4303750037
10. FIELD AND POOL, OR WILDCAT Greater Aneth		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 23 40S 23E S
12. COUNTY San Juan		13. STATE UTAH

14. DATE SPUDDED: 9/2/2013	15. DATE T.D. REACHED 9/23/2013	16. DATE COMPLETED: 12/19/2013	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>	17. ELEVATIONS (OF, RKB, RT, GL): 4685.4' GL
18. TOTAL DEPTH MD 5,905 TVD 5,841	19. PLUG BACK T.D.: MD TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) cement evaluation logs			23. WAS WELL CORED? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12 1/4	9 5/8 J-55	36	0	1,677		Lite-G 615		0	
8 3/4	7 J-55	26	0	5,626		Lite-G 430		0	
6 1/8			5,626	5,905					open hole

25. TUBING RECORD								
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	5,494							

26. PRODUCING INTERVALS					27. PERFORATION RECORD			
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Desert Creek I	5,641							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Desert Creek IB	5,656							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Desert Creek IC	5,669							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D) Desert Creek II	5,678							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5500 to TD (open hole)	acidized open hole with 3500 gal 20% acid

29. ENCLOSED ATTACHMENTS:		30. WELL STATUS:
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input checked="" type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> OTHER: <u>schematic</u> <u>tubing detail, survey</u>	injecting

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Lower Ismay A	5,546
				Lower Ismay B	5,572
				Lower Ismay C	5,585
				Gothic Shale	5,602
				Desert Creek IA	5,625
				Desert Creek IB	5,635
				Desert Creek IC	5,649
				Desert Creek IIA	5,657
				Desert Creek IIB	5,689
				Desert Creek IIC	5,709

35. ADDITIONAL REMARKS (Include plugging procedure)

more formation tops: Desert Creek III, 5772', Chimney Rock, 5790'. Well put to injection 12-19-13. Well is open hole from 5626' to 5905' TD.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry GlassTITLE Sr Regulatory TechnicianSIGNATURE *Sherry Glass*DATE 1/15/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



Resolute Natural Resources

San Juan County, UT (Nad 83)

Sec 23, T40S, R23E

Aneth Unit C-223X

DD

UWI:

WL:

Survey: Final

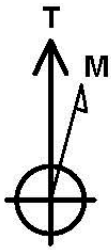
Standard Survey Report

13 September, 2013



Project: San Juan County, UT (Nad 83)
Site: Sec 23, T40S, R23E
Well: Aneth Unit C-223X
Wellbore: DD
Plan: Final

Reference Details - WELL CENTRE
Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: Utah Southern Zone
Northing: 10080191.94
Easting: 2264029.52
Latitude: 37° 17' 59.356 N
Longitude: 109° 21' 21.289 W
Grid Convergence: 1.31° West
Ground Elevation: 4688.9
KB Elevation: Est RKB @ 4705.4usft (D&J 1)

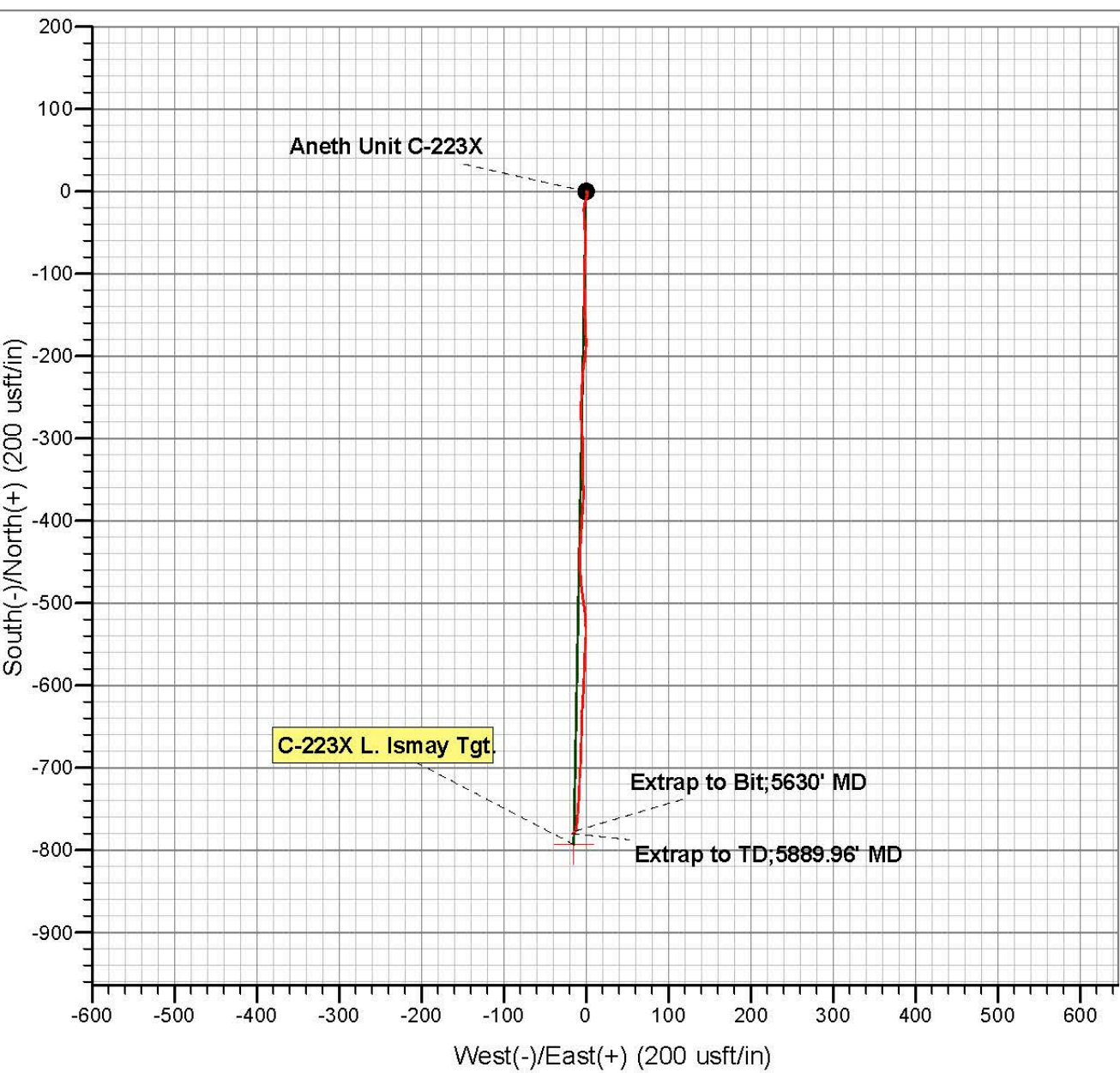
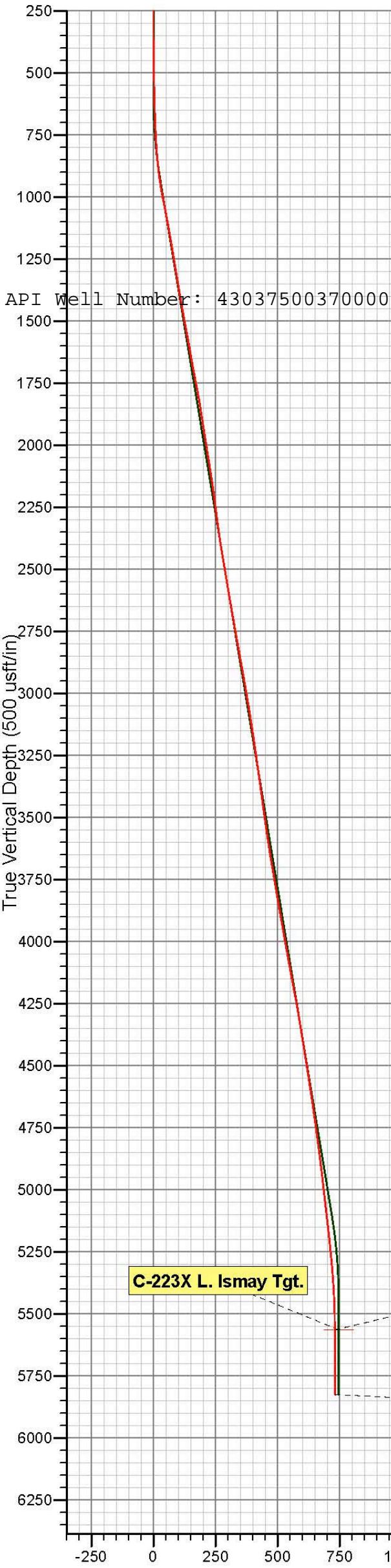


Azimuths to True North
Magnetic North: 10.36°

Magnetic Field
Strength: 50634.6snT
Dip Angle: 63.59°
Date: 8/13/2013
Model: IGRF2010

PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	933.3	10.00	181.08	931.6	-29.0	-0.5	3.00	181.08	29.0	
4	5166.7	10.00	181.08	5100.7	-764.0	-14.5	0.00	0.00	764.1	
5	5500.0	0.00	0.00	5432.3	-793.0	-15.0	3.00	180.00	793.1	
6	5632.1	0.00	0.00	5564.4	-793.0	-15.0	0.00	0.00	793.1	C-223X L. Ismay Tgt.
7	5893.1	0.00	0.00	5825.4	-793.0	-15.0	0.00	0.00	793.1	



ANNOTATIONS

TVD	MD	Annotation
5565.5	5630.0	Extrap to Bit;5630' MD
5825.4	5889.9	Extrap to TD;5889.96' MD

FORMATION TOP DETAILS

No formation data is available

C-223X L. Ismay Tgt.

Extrap to Bit;5630' MD

Extrap to TD;5889.96' MD



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Project	San Juan County, UT (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Southern Zone		Using geodetic scale factor

Site	Sec 23, T40S, R23E		
Site Position:		Northing:	10,080,191.93 usft
From:	Lat/Long	Easting:	2,264,029.53 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	37° 17' 59.356 N
		Longitude:	109° 21' 21.289 W
		Grid Convergence:	1.31 °

Well	Aneth Unit C-223X		
Well Position	+N/-S	0.0 usft	Northing: 10,080,191.93 usft
	+E/-W	0.0 usft	Easting: 2,264,029.53 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	37° 17' 59.356 N
		Longitude:	109° 21' 21.289 W
		Ground Level:	4,688.9 usft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/13/2013	10.36	63.59	50,635

Design	Final				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	161.13	

Survey Program	Date	9/13/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
94.0	5,889.9	Final (DD)	MVVD	MVVD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	-4,705.4	0.0	0.0	0.0	0.00	0.00	0.00
94.0	0.00	0.00	94.0	-4,611.4	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	204.20	150.0	-4,555.4	0.0	0.0	0.0	0.00	0.00	0.00
180.0	0.20	7.50	180.0	-4,525.4	0.1	0.0	0.0	0.67	0.67	0.00
210.0	0.10	123.90	210.0	-4,495.4	0.1	0.0	-0.1	0.87	-0.33	388.00
272.0	0.10	21.80	272.0	-4,433.4	0.1	0.1	-0.1	0.25	0.00	-164.68
364.0	0.20	112.40	364.0	-4,341.4	0.1	0.3	0.0	0.24	0.11	98.48
424.0	0.40	125.20	424.0	-4,281.4	0.0	0.5	0.2	0.35	0.33	21.33
484.0	0.80	145.20	484.0	-4,221.4	-0.5	1.0	0.8	0.74	0.67	33.33
515.0	1.10	155.80	515.0	-4,190.4	-1.0	1.2	1.3	1.12	0.97	34.19

Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
546.0	1.10	185.10	546.0	-4,159.4	-1.5	1.4	1.9	0.58	0.00	30.00
576.0	1.70	177.00	576.0	-4,129.4	-2.2	1.5	2.6	2.21	2.00	39.67
607.0	1.90	186.40	607.0	-4,098.4	-3.2	1.5	3.5	1.15	0.65	30.32
637.0	2.30	192.50	636.9	-4,068.5	-4.3	1.3	4.5	1.53	1.33	20.33
668.0	2.70	192.00	667.9	-4,037.5	-5.6	1.0	5.6	1.29	1.29	-1.61
698.0	2.90	195.10	697.9	-4,007.5	-7.0	0.6	6.9	0.84	0.67	10.33
728.0	3.30	195.60	727.8	-3,977.6	-8.6	0.2	8.2	1.34	1.33	1.67
759.0	3.80	198.10	758.8	-3,946.6	-10.4	-0.3	9.8	1.69	1.61	8.06
789.0	4.00	199.10	788.7	-3,916.7	-12.4	-1.0	11.4	0.70	0.67	3.33
819.0	4.70	200.10	818.6	-3,886.8	-14.5	-1.8	13.2	2.35	2.33	3.33
849.0	5.40	188.90	848.5	-3,856.9	-17.1	-2.4	15.4	4.02	2.33	-37.33
880.0	6.50	182.20	879.3	-3,826.1	-20.3	-2.7	18.3	4.19	3.55	-21.61
910.0	8.00	179.70	909.1	-3,796.3	-24.0	-2.7	21.9	5.11	5.00	-8.33
940.0	9.10	178.40	938.8	-3,766.6	-28.5	-2.7	26.1	3.72	3.67	-4.33
970.0	10.00	176.60	968.3	-3,737.1	-33.5	-2.4	30.9	3.16	3.00	-6.00
1,001.0	11.10	175.70	998.8	-3,706.6	-39.1	-2.1	36.4	3.59	3.55	-2.90
1,032.0	11.50	175.70	1,029.2	-3,676.2	-45.2	-1.6	42.2	1.29	1.29	0.00
1,062.0	11.50	175.40	1,058.6	-3,646.8	-51.1	-1.1	48.0	0.20	0.00	-1.00
1,093.0	11.50	177.20	1,089.0	-3,616.4	-57.3	-0.7	54.0	1.16	0.00	5.81
1,124.0	11.30	181.30	1,119.4	-3,586.0	-63.4	-0.7	59.8	2.69	-0.65	13.23
1,155.0	10.60	182.80	1,149.8	-3,555.6	-69.3	-0.9	65.3	2.44	-2.26	4.84
1,183.0	10.50	183.10	1,177.3	-3,528.1	-74.4	-1.1	70.1	0.41	-0.36	1.07
1,215.0	10.60	182.70	1,208.8	-3,496.6	-80.3	-1.4	75.5	0.39	0.31	-1.25
1,246.0	10.40	182.90	1,239.3	-3,466.1	-85.9	-1.7	80.8	0.66	-0.65	0.65
1,277.0	9.70	182.70	1,269.8	-3,435.6	-91.3	-2.0	85.8	2.26	-2.26	-0.65
1,308.0	9.60	183.10	1,300.4	-3,405.0	-96.5	-2.2	90.6	0.39	-0.32	1.29
1,340.0	9.60	182.10	1,331.9	-3,373.5	-101.9	-2.5	95.6	0.52	0.00	-3.13
1,371.0	9.80	178.90	1,362.5	-3,342.9	-107.1	-2.5	100.5	1.85	0.65	-10.32
1,402.0	10.10	179.80	1,393.0	-3,312.4	-112.4	-2.5	105.6	1.09	0.97	2.90
1,434.0	10.60	179.60	1,424.5	-3,280.9	-118.2	-2.4	111.0	1.57	1.56	-0.63
1,464.0	10.90	179.50	1,454.0	-3,251.4	-123.8	-2.4	116.4	1.00	1.00	-0.33
1,494.0	11.10	179.20	1,483.4	-3,222.0	-129.5	-2.3	121.8	0.69	0.67	-1.00
1,526.0	11.00	179.20	1,514.8	-3,190.6	-135.6	-2.2	127.6	0.31	-0.31	0.00
1,556.0	11.10	178.10	1,544.3	-3,161.1	-141.4	-2.1	133.1	0.78	0.33	-3.67
1,588.0	10.60	177.40	1,575.7	-3,129.7	-147.4	-1.9	138.9	1.62	-1.56	-2.19
1,618.0	10.60	176.70	1,605.2	-3,100.2	-152.9	-1.6	144.2	0.43	0.00	-2.33
1,635.0	10.60	176.20	1,621.9	-3,083.5	-156.0	-1.4	147.2	0.54	0.00	-2.94
1,710.0	10.70	177.40	1,695.6	-3,009.8	-169.9	-0.6	160.5	0.32	0.13	1.60
1,742.0	11.10	177.60	1,727.0	-2,978.4	-175.9	-0.4	166.4	1.26	1.25	0.63
1,773.0	11.30	178.70	1,757.4	-2,948.0	-181.9	-0.2	172.1	0.94	0.65	3.55
1,805.0	11.30	181.60	1,788.8	-2,916.6	-188.2	-0.2	178.0	1.78	0.00	9.06
1,836.0	10.90	186.10	1,819.2	-2,886.2	-194.2	-0.6	183.5	3.08	-1.29	14.52
1,864.0	10.70	188.80	1,846.7	-2,858.7	-199.4	-1.2	188.2	1.94	-0.71	9.64
1,896.0	10.00	188.50	1,878.2	-2,827.2	-205.0	-2.1	193.3	2.19	-2.19	-0.94

Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,927.0	9.90	186.90	1,908.7	-2,796.7	-210.4	-2.8	198.1	0.95	-0.32	-5.16
1,958.0	9.80	186.50	1,939.3	-2,766.1	-215.6	-3.4	202.9	0.39	-0.32	-1.29
1,989.0	9.90	184.10	1,969.8	-2,735.6	-220.9	-3.9	207.8	1.36	0.32	-7.74
2,021.0	10.20	184.30	2,001.3	-2,704.1	-226.5	-4.3	212.9	0.94	0.94	0.63
2,053.0	9.70	183.00	2,032.9	-2,672.5	-232.0	-4.7	218.0	1.71	-1.56	-4.06
2,084.0	9.70	183.90	2,063.4	-2,642.0	-237.2	-5.0	222.8	0.49	0.00	2.90
2,146.0	9.10	182.60	2,124.6	-2,580.8	-247.3	-5.6	232.2	1.03	-0.97	-2.10
2,209.0	8.40	182.60	2,186.8	-2,518.6	-256.9	-6.0	241.1	1.11	-1.11	0.00
2,272.0	8.00	180.10	2,249.2	-2,456.2	-265.9	-6.2	249.6	0.85	-0.63	-3.97
2,335.0	7.90	178.40	2,311.6	-2,393.8	-274.6	-6.1	257.8	0.41	-0.16	-2.70
2,399.0	8.40	175.90	2,375.0	-2,330.4	-283.6	-5.7	266.6	0.96	0.78	-3.91
2,431.0	9.80	175.90	2,406.5	-2,298.9	-288.7	-5.3	271.4	4.38	4.38	0.00
2,462.0	9.50	176.00	2,437.1	-2,268.3	-293.9	-4.9	276.5	0.97	-0.97	0.32
2,493.0	9.80	176.20	2,467.7	-2,237.7	-299.0	-4.6	281.5	0.97	0.97	0.65
2,524.0	9.90	176.50	2,498.2	-2,207.2	-304.3	-4.3	286.6	0.36	0.32	0.97
2,556.0	10.00	176.60	2,529.7	-2,175.7	-309.9	-3.9	291.9	0.32	0.31	0.31
2,587.0	10.40	181.00	2,560.2	-2,145.2	-315.3	-3.8	297.2	2.82	1.29	14.19
2,619.0	10.40	183.00	2,591.7	-2,113.7	-321.1	-4.0	302.6	1.13	0.00	6.25
2,650.0	10.00	180.80	2,622.2	-2,083.2	-326.6	-4.2	307.7	1.80	-1.29	-7.10
2,682.0	10.00	179.30	2,653.7	-2,051.7	-332.2	-4.2	312.9	0.81	0.00	-4.69
2,713.0	10.30	178.10	2,684.3	-2,021.1	-337.6	-4.1	318.2	1.18	0.97	-3.87
2,745.0	10.30	177.60	2,715.7	-1,989.7	-343.3	-3.9	323.6	0.28	0.00	-1.56
2,776.0	10.60	178.90	2,746.2	-1,959.2	-349.0	-3.7	329.0	1.23	0.97	4.19
2,807.0	11.10	179.60	2,776.7	-1,928.7	-354.8	-3.6	334.6	1.67	1.61	2.26
2,838.0	11.30	179.60	2,807.1	-1,898.3	-360.8	-3.6	340.3	0.65	0.65	0.00
2,869.0	10.80	179.60	2,837.5	-1,867.9	-366.8	-3.5	345.9	1.61	-1.61	0.00
2,901.0	10.50	180.70	2,869.0	-1,836.4	-372.7	-3.5	351.5	1.13	-0.94	3.44
2,931.0	10.60	182.30	2,898.4	-1,807.0	-378.2	-3.7	356.6	1.03	0.33	5.33
2,963.0	10.60	184.60	2,929.9	-1,775.5	-384.0	-4.0	362.1	1.32	0.00	7.19
2,994.0	10.80	183.90	2,960.4	-1,745.0	-389.8	-4.5	367.4	0.77	0.65	-2.26
3,026.0	10.60	183.20	2,991.8	-1,713.6	-395.7	-4.8	372.9	0.75	-0.63	-2.19
3,056.0	10.40	183.30	3,021.3	-1,684.1	-401.2	-5.1	377.9	0.67	-0.67	0.33
3,087.0	10.10	184.20	3,051.8	-1,653.6	-406.7	-5.5	383.0	1.10	-0.97	2.90
3,118.0	9.80	184.60	3,082.3	-1,623.1	-412.0	-5.9	388.0	0.99	-0.97	1.29
3,149.0	9.40	183.00	3,112.9	-1,592.5	-417.2	-6.3	392.7	1.55	-1.29	-5.16
3,180.0	9.40	184.20	3,143.5	-1,561.9	-422.2	-6.6	397.4	0.63	0.00	3.87
3,212.0	9.20	181.40	3,175.1	-1,530.3	-427.4	-6.8	402.2	1.55	-0.63	-8.75
3,244.0	9.10	182.40	3,206.7	-1,498.7	-432.5	-7.0	407.0	0.59	-0.31	3.13
3,275.0	8.90	181.40	3,237.3	-1,468.1	-437.3	-7.2	411.5	0.82	-0.65	-3.23
3,306.0	8.60	182.10	3,267.9	-1,437.5	-442.0	-7.3	415.9	1.03	-0.97	2.26
3,338.0	8.70	181.10	3,299.6	-1,405.8	-446.8	-7.4	420.4	0.56	0.31	-3.13
3,370.0	8.40	180.30	3,331.2	-1,374.2	-451.6	-7.5	424.9	1.01	-0.94	-2.50
3,401.0	7.90	178.20	3,361.9	-1,343.5	-456.0	-7.4	429.1	1.88	-1.61	-6.77

Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,433.0	8.00	176.90	3,393.6	-1,311.8	-460.4	-7.3	433.3	0.64	0.31	-4.06
3,464.0	8.10	175.50	3,424.3	-1,281.1	-464.7	-7.0	437.5	0.71	0.32	-4.52
3,494.0	8.30	175.00	3,454.0	-1,251.4	-469.0	-6.6	441.7	0.71	0.67	-1.67
3,524.0	7.90	175.20	3,483.7	-1,221.7	-473.2	-6.3	445.8	1.34	-1.33	0.67
3,555.0	8.00	174.60	3,514.4	-1,191.0	-477.5	-5.9	449.9	0.42	0.32	-1.94
3,585.0	8.20	172.30	3,544.1	-1,161.3	-481.7	-5.4	454.1	1.27	0.67	-7.67
3,616.0	8.60	173.30	3,574.7	-1,130.7	-486.2	-4.8	458.5	1.37	1.29	3.23
3,645.0	9.00	172.80	3,603.4	-1,102.0	-490.6	-4.3	462.8	1.40	1.38	-1.72
3,677.0	9.10	173.00	3,635.0	-1,070.4	-495.6	-3.7	467.8	0.33	0.31	0.63
3,708.0	9.60	171.00	3,665.6	-1,039.8	-500.6	-3.0	472.7	1.92	1.61	-6.45
3,740.0	9.80	171.50	3,697.1	-1,008.3	-505.9	-2.1	478.0	0.68	0.63	1.56
3,770.0	10.00	173.10	3,726.7	-978.7	-511.0	-1.5	483.1	1.13	0.67	5.33
3,802.0	10.00	176.30	3,758.2	-947.2	-516.5	-0.9	488.5	1.74	0.00	10.00
3,833.0	10.20	177.40	3,788.7	-916.7	-522.0	-0.6	493.7	0.90	0.65	3.55
3,865.0	10.40	178.60	3,820.2	-885.2	-527.7	-0.4	499.2	0.92	0.63	3.75
3,893.0	10.40	178.50	3,847.7	-857.7	-532.7	-0.3	504.0	0.06	0.00	-0.36
3,923.0	9.90	181.80	3,877.3	-828.1	-538.0	-0.3	509.0	2.56	-1.67	11.00
3,954.0	9.70	182.80	3,907.8	-797.6	-543.3	-0.5	513.9	0.85	-0.65	3.23
3,984.0	10.20	183.80	3,937.4	-768.0	-548.5	-0.8	518.7	1.76	1.67	3.33
4,016.0	10.90	183.80	3,968.8	-736.6	-554.3	-1.2	524.1	2.19	2.19	0.00
4,047.0	10.90	183.10	3,999.3	-706.1	-560.2	-1.6	529.5	0.43	0.00	-2.26
4,079.0	11.40	182.40	4,030.7	-674.7	-566.3	-1.9	535.3	1.62	1.56	-2.19
4,110.0	11.80	181.50	4,061.0	-644.4	-572.6	-2.1	541.1	1.42	1.29	-2.90
4,140.0	11.90	182.70	4,090.4	-615.0	-578.7	-2.3	546.9	0.89	0.33	4.00
4,172.0	11.40	182.20	4,121.7	-583.7	-585.2	-2.6	552.9	1.59	-1.56	-1.56
4,201.0	11.40	181.90	4,150.2	-555.2	-590.9	-2.8	558.3	0.20	0.00	-1.03
4,253.0	11.10	182.50	4,201.2	-504.2	-601.0	-3.2	567.7	0.62	-0.58	1.15
4,262.0	11.10	182.50	4,210.0	-495.4	-602.8	-3.3	569.3	0.00	0.00	0.00
4,293.0	10.80	183.90	4,240.4	-465.0	-608.7	-3.6	574.8	1.29	-0.97	4.52
4,324.0	10.60	182.80	4,270.9	-434.5	-614.4	-3.9	580.1	0.92	-0.65	-3.55
4,353.0	10.40	183.80	4,299.4	-406.0	-619.7	-4.2	585.0	0.93	-0.69	3.45
4,385.0	10.20	182.80	4,330.9	-374.5	-625.4	-4.6	590.3	0.84	-0.63	-3.13
4,416.0	9.90	183.60	4,361.4	-344.0	-630.8	-4.9	595.3	1.07	-0.97	2.58
4,447.0	9.80	181.90	4,392.0	-313.4	-636.1	-5.1	600.3	0.99	-0.32	-5.48
4,477.0	9.70	182.00	4,421.5	-283.9	-641.2	-5.3	605.0	0.34	-0.33	0.33
4,506.0	9.60	181.40	4,450.1	-255.3	-646.0	-5.4	609.6	0.49	-0.34	-2.07
4,536.0	9.60	180.90	4,479.7	-225.7	-651.0	-5.5	614.3	0.28	0.00	-1.67
4,567.0	9.20	181.10	4,510.3	-195.1	-656.1	-5.6	619.0	1.29	-1.29	0.65
4,598.0	9.10	181.20	4,540.9	-164.5	-661.0	-5.7	623.6	0.33	-0.32	0.32
4,629.0	9.20	181.40	4,571.5	-133.9	-665.9	-5.8	628.3	0.34	0.32	0.65
4,660.0	9.10	181.80	4,602.1	-103.3	-670.9	-6.0	632.9	0.38	-0.32	1.29
4,692.0	9.10	181.90	4,633.7	-71.7	-675.9	-6.1	637.6	0.05	0.00	0.31
4,723.0	9.00	183.10	4,664.3	-41.1	-680.8	-6.3	642.2	0.69	-0.32	3.87

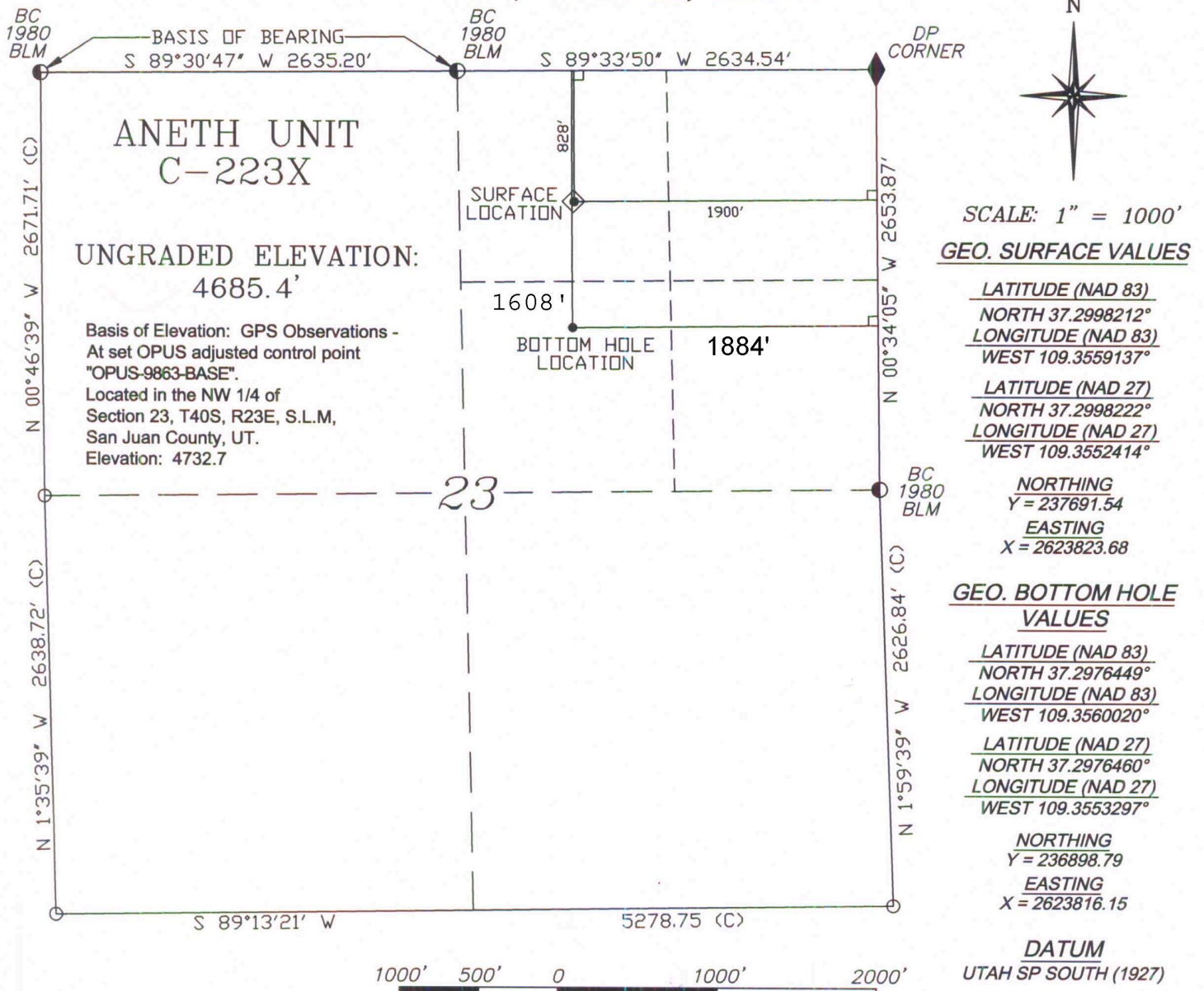
Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,754.0	8.90	182.00	4,694.9	-10.5	-685.6	-6.6	646.7	0.64	-0.32	-3.55
4,785.0	8.70	181.70	4,725.6	20.2	-680.4	-6.7	651.1	0.66	-0.65	-0.97
4,817.0	8.60	182.30	4,757.2	51.8	-695.2	-6.9	655.6	0.42	-0.31	1.88
4,848.0	8.20	184.10	4,787.9	82.5	-699.7	-7.1	659.8	1.54	-1.29	5.81
4,880.0	8.00	182.40	4,819.5	114.1	-704.2	-7.4	664.0	0.98	-0.63	-5.31
4,909.0	7.60	183.50	4,848.3	142.9	-708.1	-7.6	667.6	1.47	-1.38	3.79
4,941.0	7.60	183.80	4,880.0	174.6	-712.3	-7.9	671.5	0.12	0.00	0.94
4,972.0	7.60	181.50	4,910.7	205.3	-716.4	-8.0	675.3	0.98	0.00	-7.42
5,003.0	7.60	182.30	4,941.4	236.0	-720.5	-8.2	679.2	0.34	0.00	2.58
5,034.0	7.50	182.50	4,972.2	266.8	-724.6	-8.3	683.0	0.33	-0.32	0.65
5,065.0	7.10	183.50	5,002.9	297.5	-728.5	-8.6	686.6	1.35	-1.29	3.23
5,097.0	6.90	183.70	5,034.7	329.3	-732.4	-8.8	690.2	0.63	-0.63	0.63
5,128.0	6.90	182.10	5,065.5	360.1	-736.2	-9.0	693.7	0.62	0.00	-5.16
5,169.0	6.50	183.10	5,106.2	400.8	-740.9	-9.2	698.1	1.02	-0.98	2.44
5,190.0	6.30	183.00	5,127.1	421.7	-743.3	-9.3	700.3	0.95	-0.95	-0.48
5,222.0	6.50	185.40	5,158.9	453.5	-746.8	-9.6	703.6	1.04	0.63	7.50
5,253.0	6.80	184.70	5,189.6	484.2	-750.4	-9.9	706.9	1.00	0.97	-2.26
5,285.0	6.90	183.70	5,221.4	516.0	-754.2	-10.2	710.4	0.49	0.31	-3.13
5,316.0	6.80	185.40	5,252.2	546.8	-757.9	-10.5	713.8	0.73	-0.32	5.48
5,348.0	5.50	185.60	5,284.0	578.6	-761.3	-10.8	716.9	4.06	-4.06	0.63
5,379.0	5.10	184.50	5,314.9	609.5	-764.2	-11.1	719.5	1.33	-1.29	-3.55
5,410.0	5.20	183.90	5,345.8	640.4	-768.9	-11.3	722.1	0.37	0.32	-1.94
5,441.0	4.60	184.50	5,376.6	671.2	-769.6	-11.5	724.5	1.94	-1.94	1.94
5,471.0	3.40	183.90	5,406.6	701.2	-771.7	-11.6	726.4	4.00	-4.00	-2.00
5,501.0	2.60	189.10	5,436.5	731.1	-773.2	-11.8	727.9	2.81	-2.67	17.33
5,532.0	2.10	195.40	5,467.5	762.1	-774.5	-12.0	729.0	1.81	-1.61	20.32
5,562.0	2.30	192.30	5,497.5	792.1	-775.6	-12.3	729.9	0.78	0.67	-10.33
5,580.0	1.40	225.90	5,515.5	810.1	-776.1	-12.5	730.3	7.83	-5.00	186.67
Extrap to Bit;5630' MD										
5,630.0	0.90	225.90	5,565.5	860.1	-776.8	-13.3	730.8	1.00	-1.00	0.00
Extrap to TD;5889.96' MD										
5,889.9	0.90	225.90	5,825.4	1,120.0	-779.6	-16.2	732.5	0.00	0.00	0.00

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,630.0	5,565.5	-776.8	-13.3	Extrap to Bit;5630' MD	
5,889.9	5,825.4	-779.6	-16.2	Extrap to TD;5889.96' MD	

Checked By: _____ Approved By: _____ Date: _____

T. 40 S., R. 23 E., S.L.M.



I certify that this as-built plat on the Aneth Unit C-223X, indicates the correct BHL to the best of my knowledge.
Sherry Glass

LEGEND

-  PROPOSED WELL LOCATION
 BOTTOM HOLE LOCATION
 FOUND MONUMENT
 DOUBLE PROPORTION SECTION CORNER
-  CALCULATED POSITION
 DENOTES 90° TIE
 CALCULATED

UTAH PLS No. 7219139-2201

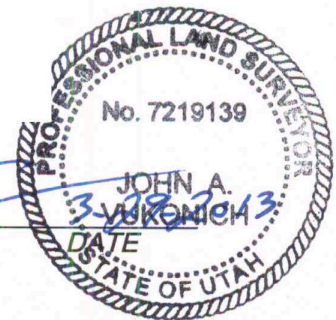


EXHIBIT A



P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 1000'

JOB No. 10421

DATE: 01/14/13

**PLAT OF PROPOSED WELL LOCATION
FOR
RESOLUTE NATURAL RESOURCES COMPANY**

**SURFACE: 828' F/NL & 1900' F/EL
BOTTOM HOLE: 1621' F/NL & 1915' F/EL, SECTION 23,
T. 40 S, R. 23 E, SALT LAKE MERIDIAN
SAN JUAN COUNTY, UTAH**



End of Well Coring Report

RESOLUTE ENERGY CORPORATION

Aneth Field C223

San Juan County, Utah

Prepared By

Fraser Salmon

October 3rd, 2013

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Core Job Summary..... 3

QuickCapture Run Data..... 3

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General Information

Customer: Resolute Energy Corp.

Well Name: Aneth Field C223

Drilling Contractor: D&J #1

Coring FSE's: Brad Penner & Nick Golovanoff

QuickCapture FSE's: Trenton Mullin & Tim Goerz

Date: September 15th to 22nd, 2013

County: San Juan County, Utah

Formation: Desert Creek

Coring Assembly:

Barrel: CC 76 QuickCapture 5.5" x 3" x 60'

Core Bit: DC 613L – S/N#1185 (6.125" x 3")

Executive Summary

The primary objective of the well was to use Corpro's QuickCapture™ pressure core system to conventionally core approximately 30 feet of the Desert Creek formation in three different 10 foot intervals maximizing core recovery and quality while collecting in-situ gases and liquids. The secondary objective of the coring program was to obtain high quality full gauge core samples while minimizing core damage. Well specific operations and coring parameters have been tailored to optimize core recovery in the Desert Creek Formation. A summary of the coring operations are provided below.

Core Job Summary

Core	Depth In (ft)	Depth Out (ft)	Cored/Drilled (ft)	Recovered (ft)	Recovery %	Time (hrs)	ROP (ft/hr)	Bit Type	Formation
#1	5698	5708	9.5	7.1	70.8	.88	11.36	DC613QLCAP	Desert Creek
#2	5735	5745	9.5	4.3	43.0	.5	20.0	DC613QLCAP	Desert Creek
#3	5770	5780	9.5	9.0	90.0	.68	14.7	DC613QLCAP	Desert Creek
		Total	28.5	20.4	71.5	2.06	14.56		

QuickCapture Run Data

Pressure Core	Component	Serial Number	Surface Pressure (psi)	Time
#1	Barrel	22075	175	04:12
	Canister	22066	20	04:18
#2	Barrel	22071	33.5	09:45
	Canister	22064	4*	09:50
#3	Barrel	22048	306	13:15
	Canister	22072	11*	13:20

* Indicates pressure reading from analog gauge because transducer turned off due to low pressure readings



Coring Breakdown

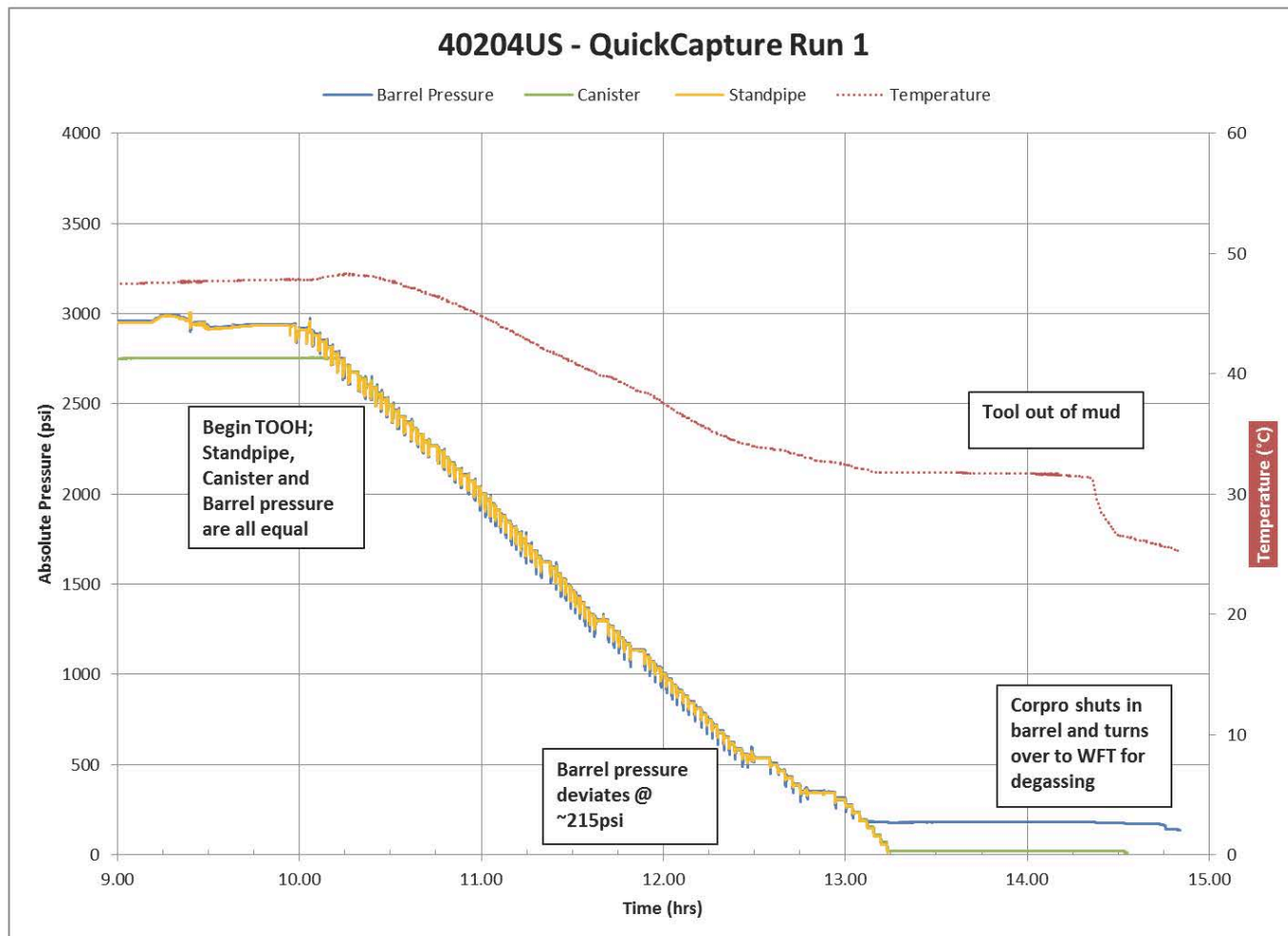
Core #1: The QuickCapture pressure core system was utilized for the first 9.5 foot coring run in the Desert Creek Formation from 5698.0ft to 5707.5ft and 7.1ft of core was recovered for a 74.7% recovery rate. The average rate of penetration (ROP) was 10.8ft/hr. The QuickCapture system properly activated and fluid samples from the core were retrieved in both the barrel and canister. At surface, the barrel was shut in and registered 175psi while the canister registered 20psi.

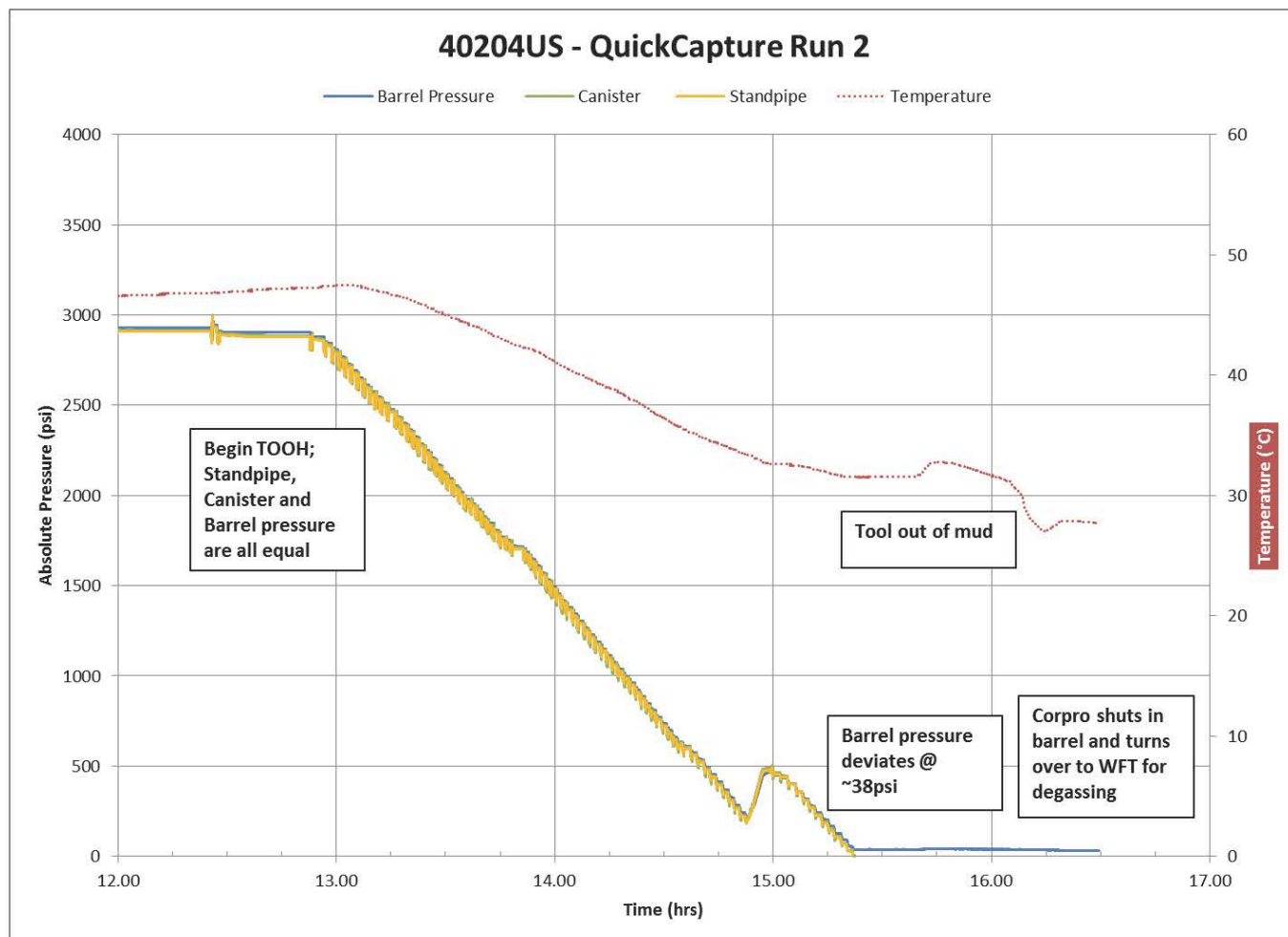
Core #2: The QuickCapture pressure core system was utilized for the second 9.5 foot coring run in the Desert Creek Formation from 5735.0ft to 5744.5ft and 4.3ft of core was recovered for a 45.2% recovery rate. The average ROP was 19.0ft/hr. The low recovery rate indicates a jam at the bit face at ~5740.0', the remainder of the coring interval was milled away. The QuickCapture system properly activated and fluid samples from the core were retrieved from both the barrel and canister. At surface, the barrel was shut in and registered 33.5psi while the canister registered 4 psi.

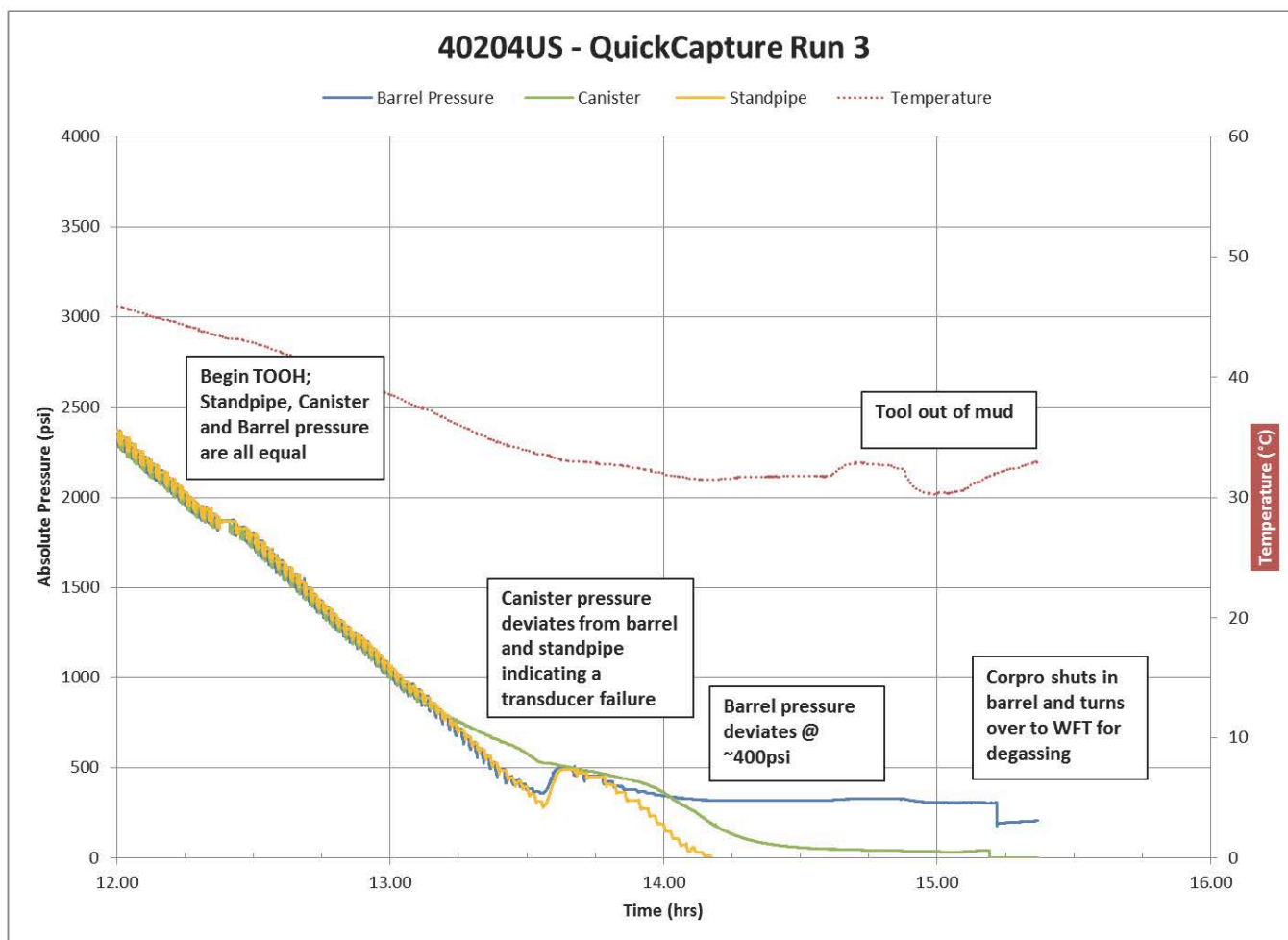
Core #3: The QuickCapture pressure core system was utilized for the third 9.5 foot coring run in the Desert Creek Formation from 5770.0ft to 5779.5ft and 9.0ft of core was recovered for a 94.7% recovery rate. The average ROP was 14.6ft/hr. The QuickCapture system properly activated and fluid samples from the core were retrieved from the barrel and canister. At surface, the barrel was shut in and registered 306psi while the canister registered 11psi. A transducer failure occurred on the canister, giving inaccurate pressure readings on the trip back to surface.

Corrective Action

- The failed transducer on the canister from Run #3 has been pulled out of service and sent for repair and calibration. All transducers are currently tested on location before RIH so the failure occurred once the transducer was in use down hole.
- There was an ROP change from 1-2ft/min to 4-5ft/min at 5740ft on Run #2. The coring engineer assumed that the ROP change was due to a change in formation rather than a jam at the bit face. Going forward the coring engineer should communicate with Geology to pin point formation changes that will take place in a coring interval as well as expected ROP's for each formation. Knowing this relevant information can help distinguish a jam from a formation change.

**Appendix – QuickCapture Pressure and Temperature Plots**





Resolute

Well Information

Deviated - Original Hole, 12/31/2013 7:16:27 AM
Directional schematic (actual)

API Well Number: 43037500370000

The diagram is a vertical cross-section of a wellbore. It shows a blue casing string with yellow cement fills. The wellbore is deviated to the right. A wavy blue line indicates the ground surface. Labels with leader lines point to various components and depth intervals.

- Casing Joints; 16; 16.5-80.0
- Conductor Cement; 16.5
- Casing Joints; 9 5/8; 16.5-1,631.2
- Surface; 80.0-1,680.0
- Casing Joints; 7; 16.5-2,495.3
- Float Collar; 9 5/8; 1,631.2-1,633.1
- Casing Joints; 9 5/8; 1,633.1-1,675.3
- Float Shoe; 9 5/8; 1,675.3-1,676.7
- Surface Casing Cement; 16.5
- Intermediate Casing Cement; 16.5
- Stage Tool; 7; 2,495.3-2,498.3
- Intermediate; 1,680.0-5,630.0
- Casing Joints; 7; 2,498.3-5,582.0
- Float Collar; 7; 5,582.0-5,583.0
- Casing Joints; 7; 5,583.0-5,625.2
- Float Shoe; 7; 5,625.2-5,626.2
- Intermediate Casing Cement; 2,495.3
- Production; 5,630.0-5,905.0
- TD - Original Hole; 5,905.0

Original Hole

Casing Information

Cement Information

Top Depth (ftKB)	16.5	Bottom Depth (ftKB)	2,495.3
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Schemtaic & Summary

Resolute

Well Name: C223X Aneth Unit

Well Information

API Number 4303750037		Enertra ID# 08964		Field Name Aneth		Original KB Elevation (ft) 4,680.30		Ground Elevation (ft) 4,663.80		KB-Grd (ft) 16.50	
Asset Group Greater Aneth		County San Juan		State/Province Utah		Qtr/Qtr SW/NE		North/South Distance (ft) 828.0		North/South Reference FNL	
East/West Distance (ft) 1,900.0		East/West Reference FEL		Latitude (°) 0° 37' 0" N		Longitude (°) 1° 49' 0" E		Section 23		Township 40S	
Block		Range 23E		Permit Approval Date 7/9/2013		Regulatory Spud Date 9/2/2013		Total Depth Date 9/22/2013		Rig Release Date/Time 9/24/2013	
First Production Date		Abandon Date/Time									

Deviated - Original Hole, 12/31/2013 7:16:27 AM

Directional schematic (actual)

Diagram labels and depths:

- Casing Joints; 16; 16.5-80.0
- Conductor Cement; 16.5
- Casing Joints; 9 5/8; 16.5-1,631.2
- Surface; 80.0-1,680.0
- Casing Joints; 7; 16.5-2,495.3
- Float Collar; 9 5/8; 1,631.2-1,633.1
- Casing Joints; 9 5/8; 1,633.1-1,675.3
- Float Shoe; 9 5/8; 1,675.3-1,676.7
- Surface Casing Cement; 16.5
- Intermediate Casing Cement; 16.5
- Stage Tool; 7; 2,495.3-2,498.3
- Intermediate; 1,680.0-5,630.0
- Casing Joints; 7; 2,498.3-5,582.0
- Float Collar; 7; 5,582.0-5,583.0
- Casing Joints; 7; 5,583.0-5,625.2
- Float Shoe; 7; 5,625.2-5,626.2
- Intermediate Casing Cement; 2,495.3
- Production; 5,630.0-5,905.0
- TD - Original Hole; 5,905.0

Rod Components

Item Description	OD (in)	Wt (lb/ft)	Grade	Length (ft)
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RECEIVED: Jan. 08, 2014



Daily Activity Summary

Well Name: C223X Aneth Unit

API Number 4303750037		Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80		Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)		Regulatory Spud Date 9/2/2013 10:00
Rig Release Date/Time 9/24/2013 06:00							
Job Category Drilling & Completion				Primary Job Type Drilling & Completion Original			
Start Date 9/1/2013				End Date			
Objective Drill and complete a vertical injector.							
Contractor D&J		Rig Number 1		Rig on Report Date 9/1/2013		Rig off report date 9/24/2013	
Contractor TOPPS		Rig Number 6		Rig on Report Date 9/27/2013		Rig off report date 10/21/2013	
Contractor Teffeller		Rig Number		Rig on Report Date 12/13/2013		Rig off report date 12/13/2013	
Report Number	Start Date	End Date	Summary				
1	8/6/2013	8/6/2013	Engineering Consultant Services				
2	8/12/2013	8/12/2013	Set and test 4 anchors to 25K, test ok, installed 4 anchor tags				
3	9/1/2013	9/2/2013	Safety meeting with M&R Trucking, Move rig F/AU C-123 - T/AU C-223X, Spot in and R/U equipment, Raise derrick @ 11:30, Weld flange on 16" conductor casing, N/U 13 5/8" annular stack and function test same, Drlg mouse and rat hole				
4	9/2/2013	9/3/2013	Finish drlg mouse and rat hole, MU 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94', Drlg 12.25" surface hole F/94' - T/675'.				
5	9/3/2013	9/4/2013	Drlg 12.25" surface hole F/675' - T/845', Mud motor not giving build necessary to follow directional plan, Circulate and W.O.O from engineer, TOO H F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor, P/U new motor set 2.42 bend, M/U new Security 12.25" bit, orientate directional tools, TIH no fill, Drlg F/845' - T/1046', Rig repair (Shale shaker), POOH to 90', Rig repair (Shale shaker)				
6	9/4/2013	9/5/2013	Rig repair, TIH (No fill), Drlg F/1046' - T/1291', Rig service, Drlg F/1291' - T/1601'				
7	9/5/2013	9/6/2013	Drlg F/1601' - T/1680' (TD), Circulate, Flow check (no flow), Short trip to 900' (No fill), TOO H, L/D directional BHA, R/U casing crew and run 40 jts 9 5/8" 36#, J55 set at 1676.7', Cement surface casing, Plug did not bump after 2.5 bbls past calculated displacement, Check floats (Hold), 70 bbls cement circulated to surface, Shut in cement head, WOC, Cement fell back to 45', Pump 7 bbls on mouse and rat hole on the AU C123, Spot in Zeco closed loop equipment., Top out cement w/3.8 bbl ,Cement top @ 45', N/D 13 5/8" annular stack, Rough cut 9 5/8" surface casing.				
8	9/6/2013	9/7/2013	ND annular, cut off conductor casing. Final cut surface casing, weld on wellhead type 11" x 3000, C22 bowl. NU 11" BOP, annular, rotating head and stinger to choke, R/U gas buster, Pre fab 8" manifold to ZECO shale shakers and tie in 8" flow line. Pressure test 11" BOPE. Cut 120' drlg line, P/U 8 3/4" directional BHA.				
9	9/7/2013	9/8/2013	Wait on jet nozzles for Security bit. Lay out & PU directional BHA, orintate MWD tools. TIH, tag cement @ 1622', float collar @ 1631'. Trouble shoot 4 1/16" HCR valve. Undetermined if HCR valve actually opened during BOPE pressure testing operations. TOO H to replace 4 1/16" HCR valve. ND & remove 4 1/16" HCR valve. WO 4 1/16" HCR to be delivered from town. Transfer mud from rig & closed-loop mud tanks to frac tanks on location. Fill mud tanks with PDS mud transferred from Aztec rig 920. NU 4 1/16" HCR valve & hook up choke flex hose. Pressure test HCR and choke manifold. TIH tag cement 1622', Drl 8 3/4" shoe track, 13' good cement in shoe joint. Drlg formation F/1680' - T/1706'. Closed-loop generator went down. Pulled bit up into surface shoe. Shut the job down until ZECO is able to supply qualified hands on location.				
10	9/8/2013	9/9/2013	Replacement generator showed up @ 08:30, still waiting on ZECO for experienced/qualified personal to arrive on location. Circulate and condition mud in mud pits. Drlg formation F/1706' - T/2621'.				
11	9/9/2013	9/10/2013	Drlg F/2621' - T/3696'				
12	9/10/2013	9/11/2013	Drlg F/3696' - T/4271'				
13	9/11/2013	9/12/2013	Drlg F/4271' - T/4959'				
14	9/12/2013	9/13/2013	Drlg F/4271' - T/5303', Rig service, Drlg F/5303' - T/5493'				
15	9/13/2013	9/14/2013	Drlg F/5493' - T/5630' (TD), Circulate, pump 2 high vis sweeps, Flow check (No flow), TOO H, L/D directional tools, TIH w/clean out assembly, Tag fill @ 5580', Work tight hole, Ream F/5514' T/5630', Circulate pump sweeps, Short trip.				
16	9/14/2013	9/15/2013	Continue short trip, POOH F/5630' - T/4399', TIH no fill, TOO H F/logs, Run logs, TIH, Circulate, LDDP & BHA, XO pipe rams, R/U csg crew, Run 25 jts - 7" 26#, J-55, LT&C casing.				
17	9/15/2013	9/16/2013	Finish run 7" Int csg set @ 5626.2. Cement first stage, bump plug @ 14:50 on 9/15/2013. FCP 950 psi, bled back 1.25 bbl. Open Stage tool @ 578 psi. Circ 25 bbls cement to pit, circulate between stages. Cement 2nd stage, bump plug @ 20:11 on 9/15/2013. FCP 640 psi, close stage tool, check floats, bled back .75 bbl. Circ 17 bbls cement to surface. ND BOP's, set 7" casing slips w/ 95K. Install 11" 3M x 7-1/16" 5M "B" section, test secondary seal to 2500 psi, (held OK). NU 7-1/16" BOPE, pressure test BOPE.				
18	9/16/2013	9/17/2013	Test BOPE, weld 8" flowline. PU 6-1/8" BHA, PU 3-1/2" DP. TIH, tag drill cement & DV tool F/2496' T/2530'. Pressure test casing T/1500 psi, TIH.				
19	9/17/2013	9/18/2013	TIH, tag & drl cement and FC F/5584' T/5602'. TIH w/ wireline tools. Condition mud to weight up from 9.2 lbs T/10.0 lbs. Drill 6-1/8" hole section F/5630' T/5692'.				



Daily Activity Summary

Well Name: C223X Aneth Unit

API Number 4303750037		Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80		Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50		Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00
Report Number	Start Date	End Date	Summary				
20	9/18/2013	9/19/2013	Circulate condition hole, drill 6-1/8" hole F/5692' T/5698'. TOOH, LD 6-1/8" BHA. MU 4.50" core BHA. TIH, drill core F/5688' T/5708'. Run wireline in drill string pull plug. TOOH w/ wireline, TIH w/ wireline, pull core barrel w/core to second core barrel. TOOH w/ core. LD core BHA. Rig Service, MU 6-1/8" BHA, TIH.				
21	9/19/2013	9/20/2013	TIH 6-1/8" BHA, drill 6-1/8" hole F/5708' T/5735', TOOH. MU core BHA, TIH, core F/5735' T/5745'. MU and run wireline.				
22	9/20/2013	9/21/2013	TOOH, Lay down 4.50" Core #2, M/U 6-1/8" BHA, TIH, Drill 6-1/8" hole section F/5745' T/5770', TOOH, M/U 4.50" Core BHA, TIH, Ream 15' of fill.				
23	9/21/2013	9/22/2013	Continue to ream to bottom @ 5770', Circulate, Core F/5770' - T/5780, POOH to intermediate csg shoe, R/U run Wire line in DP to pull pressure relief valve, Trip back in hole to pull core barrel up to second pressure barrel, TOOH L/D core tools, TIH, Drlg F/5780' - T/5860'				
24	9/22/2013	9/23/2013	Drig F/5860' - T/5905', Circulate & pump sweep. POOH to intermediate casing shoe. Transfer mud to frac tanks, transfer 10# brine water to mud pits. TIH no fill, displace hole w/10# brine water. TOOH f/logs, log well with Baker.				
25	9/23/2013	9/24/2013	Finish logging operations, RD Baker wire line, RU Bluejet. Run and set Baker 7" RBP @ 5471'. RD Bluejet, TIH, LDDP & BHA, ND BOPE. Rig down all equipment. Prep to move rig from AU C223X - T/RU 20-42H. Rig released @ 06:00 on 9-24-13.				
26	9/24/2013	9/25/2013	Move rig.				
27	9/27/2013	9/27/2013	Move in and rig up.				
28	9/28/2013	9/28/2013	Pick up workstring. Retrieve RBP, TOOH with RBP and gauges. TIH with bit to TD @ 5905', no fill.				
29	9/30/2013	9/30/2013	Tooh with bit, tih with packer, make caustic sweep, flush out of hole.				
30	10/1/2013	10/1/2013	Acidize open hole with 3500 gals 20% acid, shut down 2 hrs. Pump 10# brine.				
31	10/2/2013	10/2/2013	Tooh with treating packer, tih with injection packer, set @ 5500', test @ 1010 psi lost pressure. Tooh, pick up packer, tih, set packer @ 2508', test to 5500', good, test to surface, bad.				
32	10/3/2013	10/3/2013	Circulate f/w, test casing, good. Circulate packer fluid, test casing, bad. Isolate leak 2445 to 2588'. DV tool @2482'.				
33	10/4/2013	10/4/2013	Prep well for cement.				
34	10/5/2013	10/5/2013	Cement squeeze DV tool @2482'				
35	10/7/2013	10/7/2013	Drill out cement.				
36	10/8/2013	10/8/2013	Test casing, good. Pull rbp, lay down tubing.				
37	10/9/2013	10/9/2013	Pick up TK injection tubing, circulate packer fluid. Land tubing. Nd bops. Pressure test casing, good. Install tree.				
38	10/10/2013	10/10/2013	Test casing and tubing. Retrieve plug from packer. Rig down, move off.				
39	10/11/2013	10/11/2013	Tbg at 650#, Csg at 0#, BH at 0#. Move in Well Check MIT tester, connect to csg. Pump pressure to 1010#, shut down and let Chart Record for 30 min, no leaks, pass MIT test. Witnessed by NNEPA Rep. Leroy Lee. Disconnect from csg, move off location. RE: C-223X is ready for flowing well/H2O injection once flowline/lateral line is connected to well head.				
40	10/21/2013	10/21/2013	RIH w/1 1/4" CT w/Basic CT nozzle. RIH to 5,633 (7" csg @ 5,626'). (Cleaned out w/6 1/8" to 5,905') Could not get past 5,633'. SD N2 and start wtr. Could not get past 5,633'. POOH w/CT. Bend CT to the North. Change out gasket. RIH w/CT to 5,906. (PBDT). CO. Getting back light gunk. No solids. After N2 quit, very light flow. POOH w/CT.				
41	11/23/2013	11/23/2013	Azeotrope / Methanol Multi phase cleaning, dean stark water and oil saturations, routine core analsis				
42	12/11/2013	12/11/2013	SITP 150 psig, SICP 2,450 psig. Changed gauge to make sure of press. MIRU Tefeller (Adrian). RIH w/1.80 gauge ring and tgd profile nipple @ 5,497' WL depth. Bumped on-off @ 5,487'. POOH w/GR. RIH w/C1 running tl w/178R plug. Shear off, POOH. NU flowline to Frac Tank #258107. BD csg 2,450 psig to 0 psig in 15 seconds through choke. Small amt of oil flowed fr csg. Opened up tbg, puff of press. Tbg had a small flow, then quit. Sample of fluid to begin with looked like pkr fluid. RDMO Tefeller. After 45 min, still 0 psig on tbg and csg.				
43	12/12/2013	12/12/2013	SITP 0 psig, SICP 0 psig. Tbg has a slight flow. Get diesel to the csg valve. Press csg to 1,000 psig. Tbg flow did not increase. Leave csg @ 1,000 psig. Did not have drop in 30 min. Did not get any sign of red diesel from tbg after 1 hr.				
44	12/13/2013	12/13/2013	SITP 0 psig, SICP 750 psig, (pressure was left on csg). Press tbg to 2,700 psig, chart - held steady. BD tbg. Press csg to 1,000 psig - held steady. Did not communicate w/tbg. BD csg. MIRU Tefeller. RIH to 5,497' and puncture disc. Had a 100 psig bump in pressure from 0 psig on tbg. POOH. TIH and retrieve 1.78 plug. SWI, RDMO Tefeller.				
45	12/17/2013	12/17/2013	Started injecting water in the morning. Checked press in the evening. FTP 1,980 psig, SICP 1,420 psig.				
46	12/18/2013	12/18/2013	FTP 2,120 psig. SITP 1,540 psig. NU vac truck. Bd csg to 0 psig. Small drop in tbg press than back to 2,120 psig. Let csg flow for 5 min. When csg vlv closed csg built 500 psig in less than 3 min.				



Daily Activity Summary

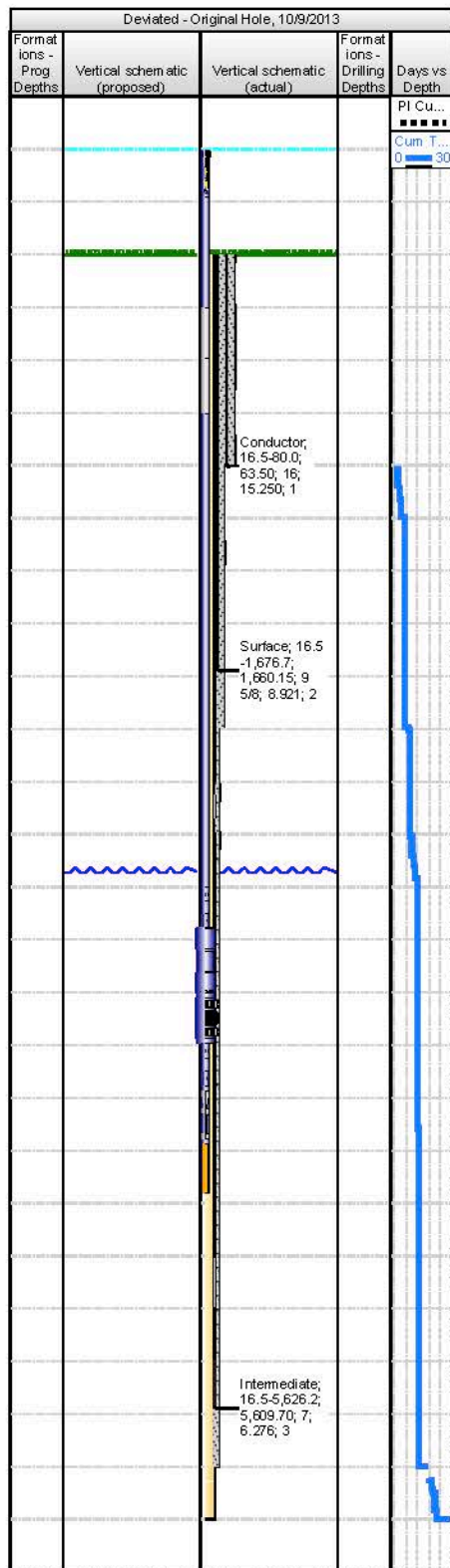
Well Name: C223X Aneth Unit

API Number 4303750037		Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80		Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)	Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00
Report Number 47	Start Date 12/19/2013	End Date 12/19/2013	Summary				
<p>SI inj line, (SITP 1,210 psig. SICP 1,550 psig.) Install bleed offs to determine if any press bleeding by hanger. Bleed csg dwn to 0 psig. Did not build csg press yesterday without injecting. Building csg press today without injecting. Csg press increased to 500 psig in less than 5 min. Open injection and build tbq press to 1,850 psig. Still no communication through hanger. Well has Russian adaptor and hanger w/extended neck. When shutting down injection press drpd fr 1,850 psig to 1,350 psig, then to 1,210 tbq psig. Well press stabilized @ 1,210 on tbq and 940 psig on csg. Talked with Billson and had chokes opened to give more tbq inj press. Tbg jumped to 1,940 psig and csg slowly climbed to 1,450 psig. Open csg and BD csg to 0 psig. Injection rate was @ 1,950 psig. Close csg valve, press jumped to 2,100 psig, then dropped to 1,300 psig. Tbg then went back to 2,100 psig and stabilized. Did not have any communication between csg slips and tbq hanger.</p>							

Resolute

Well Name: C223X Aneth Unit

API Number 4303750037	Section 23	Qtr/Qtr SW/NE	Township 40S	Range 23E	Block	Reg Spud Dt/Tm 9/2/2013 10:00	Field Name Aneth	State/Province Utah	Working Interest (%) 62.39
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Tubing							
Tubing Description			Set Depth (ftKB)		Run Date		Pull Date
Tubing - Injection			5,493.7		10/9/2013		
Comment							
2 7/8 TK with KC couplings.							
Item Des	Icon	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing Hanger / nipple	Tubin g hang er	2 7/8		1.16	0.0	1.2	
Tubing / TK / KC coupling	Tubin g (blue)	2 7/8	J-55	32.56	1.2	33.8	
Tubing Pup Joint	Tubin g (grey)	2 7/8		10.05	33.8	43.8	
Tubing Pup Joint	Tubin g (grey)	2 7/8		6.12	43.8	49.9	
Tubing / TK / KC coupling	Tubin g (blue)	2 7/8	J-55	5,431.91	49.9	5,481.8	
Cross Over	Swed ge - reduc ing	2 7/8		0.62	5,481.8	5,482.5	
On-Off Tool / 1.81 F	On- off tool 1	7		1.77	5,482.5	5,484.2	
Packer 1-x	Pack er 1	7		7.45	5,484.2	5,491.7	
Cross Over	Swed ge - reduc ing	2 7/8		0.62	5,491.7	5,492.3	
Profile Nipple / 1.78 R	Profil e nippl e	2 7/8		1.00	5,492.3	5,493.3	
Wireline Guide	Wireli ne guide	2 7/8		0.40	5,493.3	5,493.7	
Rod Strings							
Rod Description			Set Depth (ftKB)		Run Date		Pull Date
Comment							
Item Des	Icon	OD (in)	Grade	Len (ft)	Max Tensile (1000lbf)	Top (ftKB)	Btm (ftKB)
Other Strings							
String Description				Run Date		Set Depth (ftKB)	
Other In Hole							
Description			Icon	Bottom Depth (ftKB)		Run Date	
Retrievable Bridge Plug			Bridge plug - retrievable	5,473.0		9/23/2013	